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APPENDIX

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TO THE

Appropriation Accounts of the Central Government (Civil) for the year 1928-29

CONTAINING

ACCOUNTS AND REVIEWS OF GOVERNMENT COMMERCIAL CONCERNS.

COMPILED BY

A. C. BADENOCH, I.C.S.,

Director of Commercial Audit.





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COMMERCIAL CONCERNS.

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APPENDIX

TO THE

Appropriation Accounts of the Central Government (Civil) for the year 1928-29 containing Accounts and Reviews of Government Commercial Concerns.

CHAPTER I-INTRODUCTORY.

1. This volume owes its existence to the expressed desire of the Hon'ble the Finance Member that more detailed information about the commercial or quasi-commercial concerns of Government should be placed before the Public Accounts Committee. There has been much discussion about the responsibility for its preparation, and it has been decided that in future the reviews on the working of the various concerns shall be contributed by the authorities actually responsible for the management of the concerns, and that the Commercial Audit Branch will merely check the review and add any necessary audit comment. This decision was reached too late to permit of the adoption of the accepted procedure in dealing with the accounts for 1928-29, and therefore the Director of Commercial Audit has undertaken the preparation of the first report under the new arrangement. It must be remembered that this volume is something in the nature of a makeshift arrangement, and that an audit agency cannot satisfactorily prepare a review of the kind the Finance Member desires, which should contain the information likely to be communicated to the shareholders of a concern in the report of the Directors and in the Chairman's speech when the latter intend to take the former fully into their confidence.

This appendix contains reviews only of those Central concerns with the audit of the accounts of which the Commercial Audit Branch is concerned. The concerns dealt with in the volume are few, but the number is likely to increase every year; a review of the Bengal Pilot Service would have been incorporated this year had the accounts been ready in time, and it will find a place here next year. The Commercial Audit Branch expects to take over the audit of no fewer than seven central concerns; ext financial year, and further increases may be anticipated.

2. The Commercial Audit Branch was constituted as a distinct unit in the organisation of the Indian Audit Department on the 1st March 1928 and was placed on a permanent footing on the 1st January 1929. The idea of having such an organisation took shape in 1919. Local Governments had previously to engage private firms of Accountants to advise them on the introduction of commercial systems of accounts where these were required, and the Auditor General also had to entrust the audit of such accounts to these private agencies. The Auditor General felt that he should have a

staff trained in commercial accounting and auditing to enable him to discharge his statutory responsibility regarding audit in respect of these concerns. In nursuance of this policy, representatives of Mesers, Price, Waterhouse & Company, Chartered Accountants, London, were brought out to India to investigate and report upon the systems of accounting in Government commercial and quasi-commercial concerns, and two officers of the Department toured with them for training. After training, these officers were attached to the Auditor General's office and entrusted with the work of installing and auditing commercial systems of accounts, but the expansion of this kind of work made it necessary that an experienced Chartered Accountant should be rearnited both for purposes of supervision and to train officers of the Indian Audit and Accounts Service and Subordinate Staff. The experimental period of the new organisation lasted from January 1925, when Mr. Campbell became Director of Commercial Audit, until January 1929. For most of the time the Branch functioned as a part of the Auditor General's office, but for the last ten months of this period the Director was given a status analogous with that of the other independent Audit Officers. There are now seven Circle Offices working under him with Headquarters at Nasik Road, Madras, Calcutta, Rangoun and New Delhi. The work has been sub-divided among the several circles on a territorial basis except in the case of the Army Factory Test Audit Circle with headquarters at Calcutta which deals with the test audit of all Army Factories. Altogether there are 115 concerns now under the audit of the Commercial Audit Branch.

3. As is well known, Government accounts differ from the accounts of a communicialised concern in several important aspects. The most important differences are that the Government account presents the cash book aspect only of all transactions, that it makes no attempt to distinguish between the actual means and expenditure of a period and the receipts pertaining to and the liabilities of the period, and that it does not generally incorporate results of inter-departmental settlements which are barred by tales of classification: in brief the Government account does not give on the face of it the financial results of the working of the period the account covers. Commercial accounts can be made up from Government accounts by picking out certain entries, by adding and subtracting certain amounts to get the figure relating to the accounting period, and by assuming receipts and payments between departments which actually have not occurred. It is obvious that such commercial accounts are based on certain assumptions and fletions and they are called pro-formed accounts.

Originally all Government commercial accounts were proformi; there is a very natural reluctance on the part of Government accountants to accept a double entry system and to agree to inter-departmental settlements because of the enormous increase of work involved and because of the necessary inflation of Government accounts which will result. Further there is no reason why an accurately prepared proformi account should not give a true picture of the working of the Government commercial consern. This system still survives in many cases. Not infrequently commercial books are maintained in addition to the ordinary Government accounts to facilitate

the preparation of Profit and Loss Accounts and Balance Sheets. In such cases the Commercial Audit Branch generally audits the commercial accounts only.

There are however one or two very great disadvantages in managing a commercial concern under the ordin ry system of Government accounts and finance. The first difficulty crises from the necessarily strict budget control which must be maintained over all spending officers, and the second from the rule that all receipts must at once be credited into the Government account at the Treasury and may not be utilised to finance expenditure. Other complications arise owing to the rather limited powers usually accorded to all but the highest spending officers. Clearly in running any concern where it is often necessary promptly to decide about spending money in order that an advantageous transaction may be completed, the re-trictions of these rules would make successful management impossible.

Hence it comes about that a special system has been devised to give flexibility to financial arrangements for a Government commercial concern. This system, which had been considered before but took final shape in the discussions between Sir Frederic Gauntlett and the representatives of Price, Waterhouse & Co., who visited India in 1921, is generally known as the Chapter 2 system since the rules governing it are prescribed in Chapter 2 of the Account Code. It provides for the practically complete omancipation from budget control of the manager of a Government commercial concern to which the system is applied, for his being given working capital, and for his being allowed to recoup his working capital by utilising receipts. mentary control is provided by certain linking entries telween the accounts of the concern and Government accounts, so that the Legislature can always control (1) the investment of capital in the concern, and (2) the general working of the concern itself as the final profit or loss is brought to book in Government accounts, and due provision has to be made for the estimated figure in the budget. Clearly there must be safeguards in the application of such a system and these have not been omitted. The Chapter 2 arrangement is not applied to a Government commercial concern as a matter of course; it is sanctioned by the Auditor General only after careful enquiry and after he is satisfied that (1) Government has prescribed a achedule of powers which the manager must observe, and (2) a proper system of commercial accounts has been installed. In the case of all Chapter 2 concerns a careful local audit of transactions and of commercial accounts is carried out by the Commercial Audit Branch

Thus Government commercial concerns come under two categories (a) those for which pro forms a counts are prepared and (b) those coming under Chapter 2 of the Account Code. The Central concerns in Catego y (a) are:

1. His Majesty's Mints, Bombay and Calentia.

Government Research Creamery, Anand.
 Imperial Cattle Breeding Farm, Karnal.

4. Imperial Institute of Animal Husbandry and Dairying, Bangalore.

 Imperial Institute of Animal Husbandry and Durying, Wellington.

- 6. Imperial Institute of Veterinary Research, Muktesar.
- 7. Agricultural Research Institute, Pusa.

8. Opium Factory, Ghazipur (Costing accounts).

9. Northern India Salt Revenue Department (Manufacturing Department).

10. Persian Gulf Lighting Service Fund.

11. Bengal Pilot Service.

12. Mathematical Instrument Office, Calcutta,

The following has been brought under Chapter 2-Category (b):—
The Security Printing, India, including the Central Stamp Store-

4. The Balance sheets given in this volume have been prepared on the principles that are adopted in ordinary commercial accounting practice and obviously it is not necessary to explain to the members of the Public Accounts Committee in detail the nature of all the items to be found in them. It might however be useful to offer a few remarks on some of the important items special to the Balance sheets of Government Commercial concerns.

The item "Government Capital Account" may be taken up first. When it is decided to introduce commercial accounts in a Government concern the first step taken is to value all its assets and to ascertain all its liabilities on that date. The difference between the aggregate of the values of the assets and the aggregate of the liabilities is taken to the head "Government Capital Account". The commercial books are opened by debiting the several asset accounts and crediting the liability and "Government Capital" accounts. The procedure adopted thereafter with regard to receipts and payments of the concern varies according to whether the concern works under the rules in Chapter 2 or not.

If the concern is to work under the rules in Chapter 2 of the Account Code, it is provided with an adequate working capital and all the revenue receipts and revenue expenditure are paid into or drawn from its Personal Ledger Account at the treasury. The Government Capital Account is unaffected by these revenue transactions. Further Capital expenditure in the concern is paid by Government and the final result of the consequent account entries is that the "Government Capital Account" is credited with the further capital invested, with corresponding debit to the accounts of the assets created. Capital receipts are also immediately returned to Government, the Government Capital Account being debited with the return of capital. At the end of the year or half year a Profit and Loss Account is drawn up on the usual commercial lines and the result of the period of working is ascertained. As Government is entitled to the profits of the centern for having invested capital in it, just as any capitalist is entitled to his profits, the profit made is paid over by the concern to Government, and the Civil Accountant General reduces the Personal Ledger account by the amount of profit payable to Government. The Government Capital Account is not affected by payments made by the concern by way of profits. When losses occur, it is for Government to see whether the losses incurred were justified, and after satisfying itself on this score, to reimburse to the concern the amount of the losses sustained or to authorise the writing down of the capital account of the concern. The Government Capital invested in a concern is not increased because Government has merely made good Revenue losses incurred.

Non Chapter 2 concerns prepare and present bills on the treasury for their expenditure like any Government office and they pay their receipts into the treasury. In the accounts of the concern, "Withdrawals from the treasury" and "Remittances into the treasury" are accounted for. and at the close of the year these accounts are closed by credit and debit to the " Government Capital Account "; for whatever Government pays to a concern increases the capital invested by Government in it and whatever money is returned by the concern decreases the capital invested by Government in the concern. Such concerns cannot be considered to have any specific working capital. When at the end of a year, the Profit and Loss Account is drawn up, the net profit is added to the Government Capital Account, and so also are any proforma liabilities of the concern to Government for leave and pension contributions on account of permanent employees, for hours for Provident Funds, Audit Pees, Interest and Depreciation Charges. The reason for such a procedure can be explained thus. If the direct charges incurred by the concern and withdrawn from the treasury are returned to Government, together with the indirect charges incurred by Government on its behalf and with the profits of the year which are due to be paid to Government, then the capital of the concern is intact and has not increased or decreased. If however the concern has remitted into the treasury less than the amount thus calculated, it has retained some portion of the amount that it should have remitted and thus the Government Capital invested in the concern has increased. Thus

If C be the Capital at the beginning of a year

the withdrawals from the Treasury

the Profits

the Remittance during the year into the treasury.

The Capital at the end of the year will be-C+D+P-R.

Il D+P=R the Capital is intact. Capital has decreased or increased according as D-F is less or more than R.

5. Government Suspense Account .- This occurs on the ' Liability side, of the Balance Sheets of Chapter 2 concerns. The amounts payable by a concern to Government on account of interest on capital, leave, pension and Provident Fund Contributions, andit fees, etc., are taken to this head by debit to the Profit and Loss Account. The concern either discharges this liability by issuing a cheque in favour of Government on its Personal Ledger Account or the Accountant-General, on receipt of a copy of the Balance Sheet, withdraws the amount from the Personal Ledger Account and intimates the fact of the withdrawal to the concern so that the necessary account entries in connection with the reduction in the balance of the Personal Ledger account may be made.

Depreciation Reserve.—In the Balance Sheets included in this Appendix the fixed assets are, as a general rule, abown at their original value or as their value at the time of the inauguration of the commercial accounts in the concerns. The depreciation provided for them is taken to the head

"Depreciation Reserve."

The depreciation is usually written off on the "Straight line" method, and an inventory of all the assets, showing the details of the depreciation provided on each asset working up to the total of the reserve in the Balance Sheet, is maintained in the concern. The rate of depreciation has been fixed on the assumption that all ordinary maintenance and repair charges will be debited to revenue and the sanction of competent authority is taken before any amounts are debited to depreciation reserve on renewals and replacements.

Sundry Creditors and Sundry Debtors.—These heads accommodate liabilities and assets of exactly the same nature as are found in the balance sheets of commercial concerns. As all transactions are brought to account as they arise, the liabilities of a period not actually paid during the period of account and the income not actually received during the same period are shown under these heads. The auditor always examines whether these amounts are actually paid or realised during the next period.

Land.—The amounts shown under this head include only amounts actually paid by Covernment for land and do not include any value for lands for which Covernment itself had not to pay though such lands may now be worth a considerable amount. An enquiry into the policy here adopted

has already been started by Sir Frederic Ganutlett.

Other Fixed Assets.—As in ordinary commercial practice, the value placed in the Balance Sheets on these assets is the amount ascertained actually to have been spent on them or, where the actual value is not available, an estimate of the amount spent. Where a different basis of valuation, e.g., cost of present replacement with due regard to the condition of the asset, has to be adopted for special reasons, the orders of competent authority are obtained. The market value of the assets at any time has no effect on the value at which these assets are shown in the Balance Sheet.

I.ve Stock.—This is generally valued by a competent technical expert who is not immediately incharge of the concern. Appreciation as well as

depreciation is taken into account.

Floating Assets.—Floating Assets like consumable stores, stock in trade, work in progress, etc., are valued with reference to market price or cost price whichever is less. Stock-taking, as far possible by an agency independent of the concern, is insisted on and it is seen that orders of computent authority are obtained for writing off the value of unserviceable and lost stores. Audit sees that generally the value given in the Balance Sheet is effective and is not unduly high for the requirements of the concern.

Profit and Loss Accounts.—As many Government concerns have peculiar features not found in private commercial concerns the forms in which these accounts are drawn up also display peculiarities. Where the concerns have an educational and research side, as for example in the Farms, efforts have been made to show as far as possible the financial results of these activities

separately from the commercial activities. Ordinarily all charges direct and indirect are taken into account in the preparation of the Profit and Loss Account. The indirect charges include interest, leave and pension contributions and provident fund bonuses, audit fees, supervision and direction charges. In special cases and under orders of Government these charges have not been shown in the body of the accounts but in footnotes. Interest is charged in the Profit and Loss Account at 3:3252 per cent, on all Capital expenditure up to the end of 1916-17 and for subsequent espital expenditure at the average rate at which Government has borrowed money up to the year of account. The supervision and direction charges are calculated on the average estimated time spent on the concern by the appervising officers. For the purposes of calculating leave and pension contributions, the concern is treated as if it were foreign service. Miscellaneous receipts and extraordinary receipts and charges not relating to the period of working are also shown separately in the accounts so that the net result of the year's working may better be exhibited. The costs of production are wherever possible extracted and commented upon. Before, however, a conclusion can be reached as to the efficiency with which a Government concern is working, the results shown in the Profit and Loss Accounts have to be considered with reference to the policy of Covernment in the case of that particular concern,

6. An audit certificate in the usual form is ordinarily given by the Audit Officers of this Branch on the Balance Sheet of each concern the accounts of which are audited by them. The certificate is given below and to avoid repetition it has not been printed at the foot of each Balance Sheet in this volume.

"I certify that I have obtained all the information and explanations that I required and that, subject to the remarks in the Audit Report, the Balance Sheet exhibits, in my opinion, the true position of (name of concern)....., according to the best of my information and explanations given me and as shown by the books of ... (name of concern);

Sd.

Audit Officer."

Any remarks in the several audit reports which have qualified the position shown in the Balance Sheets or are of sufficient importance to be included in this Report have been given in the paragraphs relating to the various concerns.



CHAPTER II.

Government of India-Finance Department concerns.

SECURITY PRINTING, INDIA, NASIK ROAD, OR SHRET

	Overveponding halanses on Stat March 1928.	B.	10,55,062	36,654	8,11,900	1,36,431	30,482	\$72,738	29,827	10.44,307
(ARCH 1929,		Re	198,72,827	41,920	8.30,301	76,535	980 %	181	90,752	11,02,904
AS AT 318T MARCH 1929.					•			e e e e e e e e e e e e e e e e e e e	a. Pedining	
N XII OI	Abert (Area)	U. Depe	Lind and Diddings .	District Feduration .	Plant and Machinery .	Miner Equipment	Zurnikure	Perlimenery Expenses	Control Storing Blove Rocks, Frelliningery Systemson.	Woodle and Stores
	Operemponding halaness on 31st March 1928.	Ba.	8,00,770	900,000,0	1,846	2,08,227	13,623*	100.00	2,07,307	
T. BALANCE SHEET		E.	4,20,038	2,20,301	030**	3,19,163	11,844	# F. C. C. A. S. C.	3,67,261	
7. B			,	,						
	Line bilithion.		Sundry Credition .	Government Suspense Account,	Employees Security Deposits .	Depreciation Bearer	Leave Reserve, etc. ,	Generalist Capital Account	Profit and Lose Account,	

8,99,61V 2,11,208	45,896	8,854 1,718	Ledge 4,70,740 7,01,001	676'9 556'4		62,42,897 03,84 124	ada.	E. PRICE. Assistant Director of Commercial Audit, Romber Commercial Audit Croler
Sundry Debtors	Currency Note Pross	Investment of Security Deposits	Cash in Bank in the Personal Ledger Account.	Cash in hand, and stemps			* Incheded is Es. 4,315 on account of Bonus Provident Fund.	G. V. KAYAL, Offig. Accountant, Security Printing, Jurille, Neath Road,
						53,84,124	des le 13g, 4,515 c	Beauty E
	19					198,23,20	when .	CEORGE WILLIE, Lt., Col., Manfort, Sacurity Printing, India, Numb Mond.

SECURITY PRINTING, INDIA, NASIK ROAD.

TRADING AND PROPER AND LOSS ACCOUNT FOR THE YEAR 1928-29.

	0	Corresponding figures for 1027-28.			Corresponding figures for 1927-48.
	á	R.		Re	THE STATE OF THE S
To Opening Balances of Stook	4,74,644	90,115	60,115 By Lenes for Booklets	16,800	21,073
Corl of Manufacture	21,40,524	21,00,12	Salm	28,06,284	20,80,837
Selling Erpenses of the Central	1,11,5116	-	. Maring Balance of Stock .	6,76,963	4,74,044
Returns from Closed Depots Gross smollt carried down	1,49,370	130			
	35,60,166	\$55,25		86,56,366	102,82,504
To Internst	2,83,942	2,23,000	By Gress Profile brought down	10 mg/82.0	880'61'9
., Value of Store, etc. written of	27,912	103	Result Redelined	7,018	04574
. Adjustment of charges relating	6,171	1,118	. Miscellaneous Receipts and saliust-	4,005	11,428
" Net profit tarried to Balance Sheet.	3,67,361	2,07,707		1	rices
	0,94,280	4,32,250	The second second	0.84.230	4.32,280
-					

0

SECURITY PRINTING, INDIA, NASIK ROAD.

Agoney employed for varification or revaluation		The Departy Mache and an a series of the contract of the contr	Marker verified the deriver to the store deriver to the store derivers to the second derive		-
Results of atoric verification of revaluation is uny.			No discrepancies ware actived.		r To
	2 0	3	2	0	tel
Mar O	4 3	2	2		
128-29. Ulasing balance on 31th March 1920.	Rs. s.	13,036 14	51 724,10		3,044 T 4 4,07,089
	4 0			4	*
3 3 35	7 % SI 70			40	(re
9. STORES ACCOUNT FOR THE YEAR 1928-29. Value utilized during the year. (Mashing part during Sold or Depreciation 18 in year. disposed of or write off.	a a	1	:	50 10,0	10,6
d de	g" at	-	0	an an	10
TT - Glave	4 10	0	(FE	9	0
Account 1 Value utilize Sold or disposed of.	Ra. 4 v. Ra. 4. v. Ra. 4.97,088 7 11 19,02,881 13 3 14,68,974	99.2kg 0 1	991'68'1	1,12,152 8 0 1,12,172 6	A32,005 & 6 10.09,108 3 7 17.20,505 0
N	E 19	16	-	0	- Pri
	4 2		5	<i>3</i> 5	et
9. Suc Value of Apprehence for year.	=	=	(F)	8	8
S. STORE Value of revelipte during the year.	The.		11 0 557271		16.04,
ać	4 E		93	00	100
288	4 1-	۰	Eac	- AF	-
Opening Balance on 1st April 1998	154.	080	20,808 7 g	¥	A.39,000
	-11-4	4	*	- 9	
(tems)	- 1	*	Miscollarecus stores	3	0.00
2				=	
	4	lage.	Miliano	Packing Case	

SECURITY PRINTING, INDIA.

10. The Security Printing Press was established in order that Government might dispense with the services of contractors in London who used to supply India with all stamps and stamped paper. In this direction India is now self-supporting.

11. Expenditure on the Capital project began in December 1922, and

normal production on the 1st April 1926.

Formerly the products of this press were issued to the various depots for distribution to treasuries. This practice was discontinued as from the 1st April 1928, and a Central depot was opened at Nasik Road under the name of the Central Stamp Store to which all the products of the Security Printing, India were transferred and from which the issues to Treasuries were made. This Central Stamp Store is an integral part of the Security Printing, India.

12. The printing in this press is done either by letter press or by offset. The former is the ordinary method; the plate contains the design in reverse which gives a direct print on the paper, whereas in offset the design is on the plate direct, an imprint is taken to a rubber blanket where it becomes reversed and from there it is transferred to paper where the design is once more direct.

13. The press is divided into the following main Departments each of

which indicates the class of work undertaken :-

Offset.

Post Cards.

Embossed Envelopes.

Registration Envelopes.

Adhesive Stamps.

Booklets.

A certain amount of overprinting work is done by the Offset department for the others, and the machines in the Embossed Envelopes and Adhesive Stamp Departments are used occasionally for the work of other Departments. The Booklet Department is supplied with the necessary stamps for binding by the Adhesive Stamp Department. Credits and debits are afforded for these transactions.

14. The output is of two kinds, viz., postal and non-postal. The former term needs no explanation, the latter includes court-fee and non-judicial

stationery' and entertainment tax starnpa.

15. A separate control staff is maintained under a chief supervisor control for purposes of internal security and for the prevention of leakage of printed matter. This staff is responsible for the checking of paper as it passes from one process to another and it has to see that the quantity passed into one particular process is transferred to the next. Statistics of waste in manufacture are compiled; all waste is passed on to the control section where it is destroyed periodically by the Chief Supervisor Control on the authority of the Master and a certificate of destruction is forwarded to him. Half yearly returns of the sheets of water-marked paper issued to the printers and the resulting produce from the printing Departments are submitted to the Master. These are agreed by audit with the office records which are independent of

the Control Section returns, and as a further check audit visits the Departments and tests the entries in the Control records with a view to seeing that the system of control is being carried out.

16. Absolute agreement is impossible in the case of paper not water-marked which is used in the Embossed Envelopes, Registration Envelopes and Post Card departments. The paper is of common material which can be purchased readily from dealers: envelope paper is packed in commercial reams of varying number of sheets: post card paper is of slightly varying thicknesses sold by weight in reels which are therefore of varying lengths: blanks out for envelopes result in large quantities of unavoidable waste. The work of Control begins when the blanks emerge from the cutting press. The same system as is employed in the case of water-marked paper is applied from this stage. A further check is employed by searching all employees as

they leave the press.

17. All issues from the Central Stamp Stores to Treasuries are booked free on rail at Nasik Road. The selling rates were originally fixed at 40 per cent, below the loaded contract rates f. o. h. London of 1922 and have been modified from time to time as experience has proved alteration to be necessary. These rates are lower in every case than those which were charged by the London contractors. The ultimate object of the press, which is a service concern, is not to earn large profits but to make such charges as will cover the working costs. The Personal Ledger Account of the Press obtains credit for these sales from the Accountant General, Bombay, when the latter has received the accepted invoices from the various treasuries, etc., transmitted through the Controller of Stamps. The Master is notified by the Accountant General, Bombay, of his having placed funds to the credit of the Personal Ledger account. The debits are passed on to the Director General, Posts and Telegraphs, in the case of postal stationery supplies, and to the Provincial Governments in the case of non-postal stationery.

18. The cost of manufacture of the Security Printing, India, products in 1928-29 was Rs. 21,42,324. The details leading up to this total are given below; for purposes of comparison the costs of 1927-28 are also shown:—

1927-28.

Theres. Percentage Percentage Amount. On. Amount. orbi ontiuro. on Harn-Re. Ra. 14,79,400 80-5 Materials, (Paper, lak etc.) 14,24,367 88-9 93,416 3:2 62,007 29-8 Operative Wages and Salaries 100 39,200 40,700 1.0 Control Wages 1,12,172 3-7 激练 04,073 Packing 4,32,030 17:8 14% 4,49,011 Indirect Charges 21,02,173 RW3 21,45,*86 THE Total 21.074 18,5000 Adhesivo tempelarmol THE RESERVE becklet. -6 37,469 1.3 25,440 Add opening balance of WIND I 12.00. ms 75-5 21,40,687 86 67,934 1-98 Logic Less closing balance of work in progress. 37,4400 21,42,324 78-22 63-1 21,00,218 Cost of production 29,26,152 26,27,439 Value of outturn 2 6

1008-29.

The reduction in the cost of Operative and Control Wages, and Indirect Charges resulted naturally from the increased output. The packing costs should be and are about the same. The cost of materials has decreased; this decrease is not abnormal as the consumption is not of materials of uniform price but depends upon the kind of output and whether cheap or expensive paper has to be used in manufacture. The price of finished stock was increased slightly in 1928-29, and this has reacted to some extent on the percentages of costs through the higher value accorded to the outturn.

19. The selling rates, except in the case of adhesive stamps, were increased by 63 per cent. on the 1st April 1928 in order to cover the anticipated extra cost of working the Central Stamp Store. The sales amounted to Rs. 28, 56,283 in 1928-29 and to Rs. 20,86,837 in 1927-28. One of the reasons for the increase in the year under review was the enhancement of the selling rates mentioned above; but the main reason was traced to the change in the system of stamp storage and distribution on the 1st April 1928. Previous to that date the stump Depots at Calcutts, Bombay, Madras, etc., were stocked by the Security Printing Press and the necessary issues to Treasuries were made from those depots; these depots were closed on the 31st March 1928 and issues were made thereafter from the Central Stamp Store at Nasik Road. Towards the close of 1927-28 the depots reduced their demands on the Press and endeavoured to clear their existing stocks the balances of which were to be returned on the 31st March 1928 to the Central Stamp Store. The issues from the press fell in consequence in 1927-28 from a normal Rs. 24 lakhs to Rs. 21 lakhs; the short deliveries of that year were, however, made good in the first half of 1928-29.

20. The cost of working the Central Stamp Store during the year amounted to Rs. 1,11,216. This charge was allocated to the Departments in proportion to the sales. The returns from the closed depots amounted to Rs. 1,49,370. In order to exhibit how the revision of the selling rates affected the Departments in 1928-29 the Gross Profit or Loss of each department for this and the previous year is set out below:—

1027-28. 1028-29.

Department.	Sales.	Gross Profit or Loss,	Parcety- tage of Gross Profit or Loss.	Sales	Gross Profit or Loss.	Percentage of Gross Profit or Loss,
Offset Embowed Envelopes Registration Envelopes Fost Cards Adherive Stamps Booklets	#4. 3,79,122 4,40,250 1,01,721 9,01,322 1,67,112 51,301	1,57,000 -10,164 1,84,470	35-7 	Ha. 6,31,004 6,01,375 2,22,173 10,67,481 2,76,467 55,803	Ra. 1,20,440 2,62,433 15,566 2,32,000 19,064 16,510	20 0 43 5 7 0 33 1 6 9 50 0
Total	20,88,837	4,12,081		28,51,283	6,72,013	

The Cross Profit does not include the charge for interest. In the following statement the Profit for 1928-29 after charging interest is shown,

Interest has been allocated according to the fixed Capital invested in each Department and the allocation was based on the extent of the Press building occupied by, and the machinery employed in, each:—

Department		Grom Profis.	Ínletest.	Adjusted profit or Lone.	Salen.	l'ercentage of adjusted profit or loss ou turnover.
Offset Embossed Envelopes Registration Envelopes Prest Cards Adhesive Statops		 Rs. 1,26,440 2,62,438 13,566 2,32,600 19,004	14,197 62,467 08,146	2,02,80 8 1,360 1,70,133 —49,082	Rs. 6,82,677 6,03,37 9,22,17 10,67,48 2,74,77 88,86	5 33.61 4 62 1 16.94 2 -17.78
Bookints .	Total	6,72,618	2,83,942	3,88,071	28,50,28	

As it was not intended that the Security Printing, India, should make large profits the need for the revision of the 1928-29 selling rates was realised and revised rates were brought into force as from the 1st April 1929, which were roughly 10 per cent, lower except in the case of Adhesive Stamps, Registration Envelopes, and over-printed matter.

- 21. The larger output and the increase in the selling rates resulted eventually in an increased net profit for 1928-29 over that for 1927-28, the figures for the two years were Rs. 3,57,261 and Rs. 2,07,107 respectively.
- 22. The amount of waste in the production of 1928-29 is set out below. Figures for the previous year are not shown as reliable statistics were not available.

available.	Depar	1 11000a	Le.				Examined output.	Wastage Destroyed.	Percentage of waste.
Offset Shoets 1st Half yes 2nd Half yes	il .			-			187,73,533 2,80,99,288	2,00,244 2,38,840	1-27
19.	16-20						4,08,72,741	4,39,090	1:07
Registration Envisor Lat Half yes	of The	-					33,47,339 37,57,075	68,349 93,430	2-04 2-49
19	98-29	4	,	=			71,04,414	1,63,779	2:58
Adhesive Stemp Let Half you Zool Half yo	3.2	*					19,18,500 26,73,743	41,340 54,523	216 244
	28-29				,	-	45,89,243	95,803	2:09
Buddon— lut Half yo 2nd Half yo		1			*	100	21,81,024 39,34,720	19,199 84,310	0-88 9-87
	28-29						51,16,744	1,03,506	2.02
						-			

The reason for the large increase in the Booklet waste was that during the half year under review, labour trouble was experienced in this Department,

and untrained men had to be entertained with the result that waste was heavy until they had become accustomed to the work. The increase in the Registration waste was attributed to the fact that the cutting dyes had become worn and were kept in use longer than would otherwise have been the case because the new dies ordered from Europe were late in arriving.

23. Balance Sheet, -In the following statement the net increases and decreases amongst the Fixed Assets can be traced readily:-

MEL SET		Balance	of Car-		Decrease.	
Item.		31-3-28.	31-3-29.	Intrins	Decrease.	
		Ra	Re	Rs.	Ta	
Land and Building Riotric Installation Plant and Machinery Minor Equipment Furniture		. 10.85,092 36.654 8,11,963 1,36,431 36,482	20,27,307 41,020 8,20,301 76,335 53,026	0,42,306 6,266 8,338	10,800	
	Total	30,06,632	30,19,170	11,72,453	50,940	

24. The details of the additions and writes off during 1928-29 which led up to these not figures are set out below: --

Itania,		Total Additions	Total: writes off.	Not Increase.	Not Docrease.
		Ha	Ba	Ra	Ha
Land and Baddings		11,36,256 5,266	1,98,960	9,42,305	100
Plant and Machinery Misor Equipment		48,548	40,208	BUILD	Kappod
Parature	919	10,544	e-4	16,644	-
7	otal	12,11,299	2,98,742	9,74,453	39,000

Of the total additions Rs. 8,68,178 represented the Capital cost of the Central Stamp Store project, and Rs. 3,18,655 was the value of the transfers from the Currency Note Press. In addition to these transactions certain items of Plant, Equipment and Furniture were purchased from the Personal Ledger Account of the Security Printing Press at a cost of Rs. 24,466.

25. The writes off include transfers to the Currency Note Press of Rs. 2,43,491, Depreciation on minor equipment to the extent of Rs. 2,640, and a write off of Rs. 52,611 from the minor equipment on account of engraved plates. The expenditure on these plates should have been borne by Revenue as it was incurred; it was capitalised, however, in the first place because of the heavy initial outlay which had to be incurred in order to stock the press at its inception and sanction to the write off of this extraordinary Revenue Expenditure in instalments over a period of five years was obtained. This sanction had retrespective effect and the amount mentioned above was heavy because it included the write off of previous instalments.

26. The details of the stocks and stores on hand at the beginning and end of 1928-29 are as follows:—

Halapse of stock sta., on Linina let April 1928. 31st March 1929. Ha. Time. 5.51,100 4,68,171 Paper, Inh. etc. 1.814 理1 Packing Com 57,994 AT ARTH Work in Progress . 0.76,083 1,74,044 Finished Steeles . 11,99,905 10,44,207

27. It will be observed that the balance of finished stocks is increasing. The reserve of stocks to be maintained by the Central Stamp Store was prescribed in paragraph 6 of the Government of India rules for the supply and distribution of stamps, and the output of the Security Printing Press at present is in accordance not with the demands of the public, but with those of the Central Stamp Store which is building up its reserve. The stocks on the 31st March 1929 had not reached the limit prescribed in the rules and will go on increasing until this limit is reached.

The following is a summary of the departmental transactions in finished stocks in the Central Stamp Store:—

ilepariment.	Opening balance on let April 1028.		lteorpis furing russ-su		1 muss during 1925-20,		Ukrainar halamos o Met Massis I	
Official Post Cards Embossed Envelopes Registration Envelopes Addenive Stamps Bocklets	Re- 1,23,179 63,008	A. F. D 0 S 0	Re. a. 8,02,370 15 10,70,867 31 0.24,980 13 2,90,252 15 4,05,724 7 62,058 8	0 0 0	6,35,516 10,67,354 6,04,556	13 13 14	R4 0 3,80,042 0 72,612 0 20,433 0 69,741 0 2,09,741 0 5,785	A. F. 5 0 0 0 0 0 2 0 5 0 8 0
Total	3,36,977	8 0	32,03,373 6	0	28,00,820	0	0 7,30,325	4 0

The value of the closing balance, wiz., Rs. 7,39,325 was calculated on the selling rates of 1928-29, and as this stock was affected by the revised selling rates which came into force on the 1st April 1929, the value was reduced to conform to the new rates. This revision which amounted to Rs. 44,001 reduced the closing balance to Rs. 6,97,234 at the new selling rates. If these stocks were valued at selling rates they would include profits not actually earned. In order therefore to exclude these uncarned profits a further reduction of \$\frac{1}{2}\$th was made and the value accorded to the closing balance for purposes of these accounts was Rs. 6,33,940. Finished stocks in the Security Printing Press awaiting transfer to the Central Stamp Store amounting to Rs. 43,043 are included in the figure of Rs. 6,76,983 appearing in the statement in paragraph 26.

28. The Sundry Debtors on the 31st Murch 1929 amounted to Rs. 3,96,617, and almost the whole of this sum was due from Treasuries. The increase of

these debts over those of the 31st March 1925 was due partly to the change in the procedure of issuing stamps which was brought into effect on the 1st April 1928. Previous to that date sales were made to a few main depots situated usually in the headquarters of provinces and the adjustments on account of these sales were passed through the Government books of account without much delay. In the year under review the sales were made direct to treasuries which meant that the customers of the Press had increased considerably and owing to the isolation of many of them, there were a greater number of outstandings at the end of 1925-29 than at the end of 1927-28. The percentages of outstandings on the sales in each of the last two years are set out below;—

Y=n						Outstand- ings on sales.	Salve	Permutage.
1027-28 .	4	2		į	1	Rs. 2,11,292 3,96,617	1ta. 20,85,837 28,55,284	

29. The amount of Rs. 43,326 shown as being due from the Currency Note Press was on account of supplies and services rendered by the Security Printing Press to that concern.

30. There were certain expenses incurred at its inception by the Security Printing Press and the Central Stamp Store which were not of a Capital nature but which could not be classed as normal Revenue expenditure, e.g., expenditure incurred on experiments, etc.; these were classified temperarily under Capital and sanction was obtained to writing them off over a period of five years. These charges appear in the Balance Sheet under the head Preliminary expenses.

31. The Personal Ledger Account of the press was in funds to the extent of Rs. 4,76,740 on the 31st March 1929, whereas it amounted to Rs. 7,66,991 on the 31st March 1928. This reduction resulted directly from the surrender by the Master of Rs. 5 lakhs out of his Personal Ledger Account during 1928-29.

32. The Government Suspense account includes the amounts due by the Press to Government on account of interest, andit charges, etc. This account is cleared periodically by the Accountant General, Bombay, and the necessary amounts are withdrawn from the Personal Ledger Account of the Press.

33. The total depreciation reserved for up to the 31st March 1929 was Rs. 3,19,161. The details of this amount are :-

B6 (T.S.)								Pin.
Buildings	- 4			- 4	le .		-	110,80
Plant and Machinery	- 1		- 1	ă-	- 7	-	-	2,02,090
Minor Equipment .	4		- 11				10	6,780
Furniture		-	-					12,400

34. A Leave reserve has been built up for the non-pensionable establishment and all outgoings on account of leave salaries of this establishment are met out of this reserve which amounted to Rs. 11,844 on the 31st March 1929. The annual contributions on account of the leave and pension of

the pensionable establishment are surrendered to Government and payments of leave and pension to that establishment is not made by the Press but by the Accountant General.

33. The Government Capital account stood at Rs. 43,36,753 on the 31st March 1928 and amounted to Rs. 48,03,552 on the 31st March 1929. The details working up to this amount are set forth below :—

THE WARD MA STATE OF THE PARTY AND THE PARTY	Ra.
Rahmes on 1st April 1928	43,76,763
Add Captial Exposulture of the previous year adjusted by the	
- Assembant General during 1929-29	23,487
L. Capital Expenditure on Centest Stamp Store vide paragraph 24	8,68,176
Capital Cast of trambus from the Currency Note promeride	
paragraph 24	3,18,655
	-3-11-
	55,47,073
F.a.	Section 1
Less Surrender to Covernment out of the Personal	
Ledger Assumt during 1928-29 8,00,000	
" Capital good of transfers to the Corrency Note	
prem vide paragraph 25	7,43,491
Lean sim basedints and	Maniant
	49,03,682
	All the Blackers at a strategy at

HIS MAJESTY'S MINTS, CALCUTTA AND BOMBAY.

GENERAL REMARKS INTRODUCTORY TO THE REVIEWS OF THE ACCOUNTS OF THE MINTS.

36. Indian Mints produce, for circulation in India, silver, bronze, and nickel coins. Besides, they undertake jobs for outside departments and private individuals, the manufacture of medals for the Army department, the manufacture and testing of scales and weights for treasuries and currency offices, ecc., and occasionally coinage work for Indian States, foreign countries such as Straits Settlements. Coinage is undertaken under the orders of the Controller of the Currency and all issues of coin are made to the local Currency office from which they are distributed.

37. At the suggestion of Mesara Price, Waterhouse & Co., the question of the introduction of a saitable system of commercial and costing accounts in the Mint was taken up and investigated by an officer of the Commercial Audit Branch. Commercial acquires were first introduced in both the Calcutts and Bombay Mints in 1926, and after trial of more than one system the present arrangement of maintaining commercial books in addition to the regular Government accounts has been adopted. The commercial accounts are of the wes farmed type explained in the introductory paragraphs of this volume. The scheme is, however, still in an experimental stage and the question of the retention of the commercial accounts is still under the consideration of the Government of India.

38. Towards the end of 1928-29 there was a redistribution of work between the two Mints. Calcutta now carries out most of the coinage work while Bombay does all the refining of silver. A special electrolytic refinery was constructed in the Bombay Mint in 1928-29 to enable it to cope with this work. As a precautionary measure against possible heavy demands for coinage in future the minting plant of the Bombay Mint is maintained in readiness for work, and it is proposed that a small share of the coinage

should be turned out by this mint. By this means not only will the plant be kept in order but a trained staff will always be available to meet any coinage rush that may eventuate. Until the reorganisation in 1928-29 uncurrent coins withdrawn from circulation in the Bombay Presidency, in the central Provinces and in the Punjab and North West Frontier Provinces were remitted to the Bombay Mint. After the reorganisation Bombay deals with the uncurrent nickel and bronze coin collected in the Bombay Presidency only and with all uncurrent silver remittances except from Burma, Assam, and some parts of Bengal and Bihar and Orissa.

- 39. The following are the main departments in both Mints :-
 - (1) Coinage department, in which coins are minted. This is subdivided into (a) laminating, (b) annealing, (c) stamping, (d) weighing and testing, etc.
 - (2) Workshop, whose primary function is the maintenance of the Mint machinery.
 - (3) Medal and Die department, in which medals and dies are manufactured.
 - (4) Electrical department.
 - (5) Bullion office, where uncurrent coin is examined and bullion is stored.
 - (6) Stores.

The Bombay Mint has additional departments in the gold and silver refineries and the Assay Office. All Assay work has since 1st October 1923 been done at the Bombay Office, the Calcutta Assay Office having been abolished on that date. The Assay office is independent of the Mint and is in charge of an Assay Master. Bombay with its gold and allver refining work occupies most of the time of the Assay office but assays are done both for the Calcutta Mint and for the public.

40. The commercial accounts as now compiled are intended to bring out (1) the net financial result of the operations of the Mints as a whole in a commercial form, (2) the assets and liabilities of the Mints, the net capital invested by Government in the Mints and the nature and amount of the different forms of assets in which the capital is held. (3) the profit or less on the various denominations of coins manufactured in the Mints, (4) the results of the working of the workshop, the Medal and Die departments; the production costs of the various coins as a whole and as analysed under the various processes such as laminating, annealing, stamping, weighing; the cost of generating electricity per unit, etc. All this information is not available in the Government accounts as compiled at present.

41. The following are the more important principles followed in the compilation of these accounts

(a) The Workshop, and the Medal and Die departments are treated as service departments maintained for the Coinage department, and not as independent productive departments of the Mint.

The underlying idea is that, apart from certain miscellaneous items of work executed by the Mint, such as the manufacture of medals for the Army Department, etc., the operations connected with coinage including the examination and recoinage of uncurrent coins constitute the main activities of the Mint and that the workshop and the Medal and Die departments are maintained in the Mint marely for the purpose of serving the coinage department. The fact that during their spare time these departments are allowed to take up work for other departments and private individuals does not affect the operation of this principle. The net financial results of the activities of these two departments are therefore transferred to the account of coinage costs, as part of the general onecet.

(b) Melting Charges.-Charges incurred in melting and converting silver, nickel, branze, etc., into ingots, are compiled, separately for each class of metal melted, from the information contained in the departmental and other initial records kept up in the Mint. The average zate per lakh of tolas of sach class of metal melted and cast into ingots is then worked out. The amount debitable to the Production Account of coinage is then caloutlated in accordance with this rate on the weight of ingots broken down, i.e., rolled by the laminator for the particular class of coinage. The residue of the unallocated melting charges is treated as the multing cost of the unused ingots in the store, and is shown as an asset in the accounts under " Work-in-progress" at the end of the year in the Melting department. The object of this procedure, at present confined to the Calcutta Mint where comage is the more important function, is to debit a proper share of the melting charges to the cain go operations of a year.

(c) One at is sub-divided into Factory and General opecat. Pactory oncost includes all the indirect charges of a general nature, which can be allocated to a separate department of the Mint, such as salaries, gas, rent, rates and taxes, charges on account of electricity consumed, depreciation on Buildings, Plant and Machinery of the departments. Common charges are allocated to the departments concerned on a suitable basis and distributed amongst the work orders in those departments on the basis of the direct labour charges incurred therein. All other indirect charges which cannot be allocated to any particular department, are included under "General oncost." The not general encost after deducting miscellancous receipts. has been distributed between Covernment and the Mint in the ratio of 40: 60 per cent, in the case of the Calcutta Mint in accordance with the orders issued by the Government of India. In the case of the Bombay Mint the basis of the allocation of charges to Government has been the proportion of idle days to possible working days.

- (d) Standard silver. Silver bullion issued for coinage is valued at the rate of Re. I per standard tola, for the sake of convenience, as this unit is used in the bullion accounts and other records of the Mint. It is also the rate at which Government setually withdraws rupees from circulation for purposes of recoinage. As the face-value of the coin manufactured is also Re. 1 per tola, the commercial accounts must always show a loss on silver coinage operations; this loss really represents the cost of the coinage operation apart from the cost of material. Fine silver issued from Currency for the use of the Mint is adjusted in the Mint accounts by credit to the Currency department on the basis of the market price of silver on the date of transfer. Such silver issued by the Mint for the various jobs undertaken in the Medal and Die department is charged at the market rate on the date of issue plus 20 per cent. The difference between the rate at which the Mint purchases the silver from Currency and the rate at which it is sold is treated as a miscellaneous profit accraing to the Mint.
- (e) Uncurrent coin. The Bullion office 'cals with the examination of uncurrent coins received from treasuries and currency offices. The loss on account of the withdrawal of uncurrent coins, being the difference between the metal and nominal value of coins withdrawn from circulation, and a proportionate share of the Bullion office charges on account of their examination, are included in the Profit and Loss Account under the kind of coinage concerned. This procedure which has been accepted by the Government of India, is based on the principle that all gains accraing to the country from exercising the national prerogative of having its own coinage should be brought together as accurately as possible in one set of accounts.
- (f) Interest on Capital is not included in the Mint accounts. Provision for pensionary liabilities has been included, with effect from the year 1928-29.
- 42. A comparison of coinage costs in Calcutta and Bombay might seem to be a necessary part of a review of the accounts of the Mints. It has not been possible to include such a comparison owing to lack of the time that would be necessary to make a thorough investigation into the causes of differences so as to give satisfactory explanations. The Controller of the Currency has always considered that such a comparison is difficult and would not be particularly educative, owing to the different conditions existing at the two Mints. It must be realised that the Mints are part of the currency system of the country, and ourrency exigencies may have to ignore commercial account considerations, commercialisation is not in all cases necessarily a golden rule.

HIS MAJESTY'S MINT, BOMBAY.

43. BALANCE SHEET AS AT 31ST MARCH 1929.

Corresponding balances on 31st March 1928.	Ra. 3.18.786 3.44.031 79,004	1,7790 14,263 5,80,79,713 4,38,80,000	16,64,827	4,13,000 35,600 4,32,125 8,34,670 58,632 1,463	10,08,33,564	E. PRICE, A. C. A. Os of Commontial Audit, Bombay Circle.
31st March 1949.	Ra. 4.85,088 3.24,061 1.14,177	8,401 84,907 8,80,84,311 4,22,71,278	11,00,435	3,66,041 1,06,09,786 88,016 3,048	11,85,32,792	R. PRICE, A. C. A. Amintant Director of Commontal Audit, Bombay Circle.
Assertio.	Buildings Machinery . Plent and Machinery . Further and Laboratory appearable	Mink Bullion Stack. Gold Silver. Currency Silver.	Other Metal Stacks. Niskal. Brouse. Gornan Silver.	Printshed Cota Stock. Nickel. Rectate. Breater. Thermoread remissioners amoising Resouths. Security Deposits.		
Corresponding Corresponding halaneme on 31st March 1028.	Ba. \$5,546 68,053	8,38,990	7.17,814		16,58,39,564	A. J. RANGFORD. Major, R. E., Mint Matter, His Majorty's Mint, Bombey.
Slet March 1980.	Be. 149,112 [86,066	1,06,68,785	34,24,273		11,86,32,702	
Linbullston	Susaling confidence	Currency (Real Baltenie unwiting Pressure Benitlance unwiting	Profit and Loss Account.			A. P. PATANKER, Accountact, His Majerty's Mint. Bombay.

HIS MAJESTY'S MINT. BOMBAY.

44. TRADING AND PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDED SIST MARCH 1929,

1	1868-20.	Corresponding figures for 1927-28.	Į,	1029-20,	Corresponding figures for 1927-28.
	ź	No.		Re	75.
To Opening Balance on 1st April .	4,48,000	8,70,800	By house of columns	180°48°	19,18,608
" Cont of Counsys	25,26,101	1,67,520	Gadan on Counterfalts	in the second se	2,040
Loss on withdrawal of unous-	8,28,746		. Excesses found in remittances	8 8 42 4	=======================================
Bullion Offen Conte	1,14,425	080'90	. Coming balance of finished coins on the March.	- 18 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	1,48,500
, Grout Profit carmel down	*****	T,20,083	Gross Loss curried down	- Carias	
	80,14,804	24,44,627			24.40,827
T	-	1	1		
To Gross Loss brongla down	4,35,204	6 6 7	By Green Profit brought down	# # # #	1,00,000
Share of Assay Office Costs .	80 88 88 88 88 88 88 88 88 88 88 88 88 8	80,000	. Profit on gold melidag and refining	110/54	200 TO
Nichel Washing Conta	100	0 2 2 2	" Beceight from sales of drosses.	4.524	de di si si
Lost at recovery of allier drawn	7,410		Miscellaneous receipts and adjust-	100	13,400

BIBBL GOVERNMENT (CEVILI) FO	1 1020-20.			1
	7,64,618	1,64,312	209,550	7,17,814
	1,88,928	418,010	\$10°,000	38,961
	1 1	April.	the year	he Balmace
		By Palance of Profit on lat April.	Less Net, Long for the year brought down. dels Net Profit for the year brenglit down.	By Ralance Carried to the Balance Sheets.
2,087 64,019 18,308 22,019 11,000 6,06,606	7,65,618			
28,786 18,138 28,057 6,700	7,98,92%			
Silver relievery coate Standard multing conte Die Department conte Loss an Verification of Nickel , Raise of Nickel , Raise of Police Charge Adjustment of Police Charge.				

HIS MAJESTY'S MINT, BOMBAY.

45. The accounts of the Bombay Mint for 1928-29 in a summarised form

are prefixed to this review.

No coinage operations were carried out after October 1928, and the staff was employed in general cleaning and tidying up. Later on, experimental work in connection with the refining of silver was begun. Work was not interrupted in the Bullion Office, gold melting and Refining and Die Departments, and the Assay Office.

46. The cost of coinage amounted to Rs. 25,26,191; of this amount the silver comage cost Rs. 22,82,587, the Nickel Coinage Rs. 1,04,184 and the

Bronzo Rs. 1,39,420.

47. Silver Coinage. - During this year 24,65,597 eilver half rupees and 40,23,198 silver quarter rupees were minted. The detailed cost of manufacture per 1,000 pieces of each of these two coinages was :-

		-	T					Cost per 1000 piec		
		Teem.						Rupea	1 Rupes.	
Labour Communable Stores Departmental Charges Dies . General Charges	****	anta.			 		*****	Ha 143 09 231 54 518	Ba. 1 00 08 1 25 03 2 14	
Coat of Bullion molnding	melti		ingel	·	Cotal (. cool	-	9-88 800-82 500-88	4:01 200:30 204:90	

^{48.} The comparatively higher cost of the half-rupes coinage was due to the fact that this coinage was carried out in the second half of the year when manufacture had been restricted and the departmental and general charges were heavy in consequence. No silver coinage was carried out in 1927-28. and although silver was minted in 1926-27 cost accounts for the whole of that year were not compiled and no statistics are available for purposes of comparison with the results of 1928-29.

49. In the following statement the cost of manufacture, value of outturn and the loss per 1,000 pieces of output are set out :-

Colhage	No. of pieces manufac- tured.	Cost of manufac- ture	Value of emiture.	Landa manufac- tura.	Cost per 1,000.	Value por 1.000.	Loss per 1,000.
Rupee	24,62,607	the same to be a second to			Ra. 600 85 254-00	700 250	Rs. 0-85 4-90

- 50. The builtion used in manufacture is debited to the Mint at the standard rate of Re. 1 per tola, and not at the nurket value of silver. The reasons for this practice and its results have been explained in the introductory remarks to the reviews of the accounts of the Mints.
- 51. Nickel Coinney.—24,76,000 two-ama pieces and 48,31,600 one-anna pieces were manufactured during 1928-29, and the cost of manufacture amounted to Rs. 17:21 and Rs. 12:70 per thousand pieces respectively. The detailed cost of manufacture is given below and the results of the previous year are also shown for purposes of comparison:—

Cost per 1,000 pieces.

			1 3	wir-an	h.i.	One-anna.			
				1027-2	Q.	1028-20.	1027-28.	1009-20	
eleum : .	-	n li		19	14	1906	1:20	-	
December Steep		и.	ı.		1.7	*33	-20	*17	
Departmental Chi			į	11	IN .	1/31	1:73	1-15	
Die .					41	-32	0.71	412	
Descript Charges				2	66	2·12	Election	1-84	
			-	6:	87	5.14	0.57	471	
Cost of Motal but	uding n	olting clu		12	113	12:07	8/11	7-00	
200		Tuln! Cou		18	-98	17:21	14168	12-70	

53. The credit taken into the Mint accounts for the issues was at the nominal value of the coins, and the profit resulting therefrom is set out below:

	Columge		No. of pieces manufac- tured.	Cost of minimize- ture-	Value of outhurn. Rs.	Profit in manufac- ture Ra-	Cost per 1,000, Re-	Value per 1,000.	Profit per 1,000.
2-corre		m.	. 24,70,600	42,602	3,00,500	1,00,805	17:21	125	107-79
l-mma			48,31,600	61.582	2,01,975	2,40,303	12:70	62'50	49-60
		10.13						-	

1.04,184 6,13,475 5,07:291 ...

53. Bronze Comage.—During the year under review 80,08,640 pice and 51,35,360 pic pieces were coined at a cost of Rs. 12.42 and 6.52 per 1,000 pieces respectively, the detailed costs of which were:—

Cost per 1,000 pieces.

-	Bronz	n Piess.	Bronze Piec.		
	t927-25.	1025-20.	1927-28.	1929-29	
Labour	143	494	1.24	-300	
Consumable Stores ,	-20	-19	~ LN	-07	
Departmental Charges	1:97	1:14	1963	1:00	
Dies	18	-23	100	38	
General Charges	287	1-97	2:10	1:61	
	6-60	4:30	6/87	3-66	
Cost of Bronzo including melting charges	7-02	8-00	2.81	2:66	
1 - 1 -	14*77	12-43	8-6%	6.63	

54. The issues from the Mint of the finished produce were made at the nominal value of the coins, the Profit and Loss resulting therefrom being :-

	Coinngs.		No. of phose manufac- hund.	Carl of manufac- ture.	Value of outturn.	Profit to magulac- ture.	Cost per 1,000.	Value per 1,000.	Profit or line per 1,000.
				Ra.	Be	Ra.	Ra	Ba.	Rs
Pim		19	80,08,640	99,446	1,25,138	25,690	12-42	15 65	3-20
Fine			01,35,300	39,078	\$1,950	-8,020	6-53	6-31	1:31
			11	1,39,420	1.87.000	17.670			

55. The lower costs of manufacture of Nickel and Brouze Coins in 1928-29 are noticeable. Economy in labour and a reduction of the unproductive staff in view of the closing of the Mint to coinage is partly responsible.

for the lower costs. The improvement in costs has been progressive as may be realised from the following figures:—

Cost per 1,000 pieces in the half years unded:—

Thomas.

						-			
							20-9-27.	31-3-28.	30-9-28.
							Ra	Ra	Ite
Nickel 2	Anna						0.61	16-95	17-21
. 1	Anna	.87					10-62	12-75	12:70
Britis	Ples	9	4	R	-	7	11/05	1440	13142
49	Pla Pla		,	a			9.07	7-29	6-52

There was no coinage of Nickel and Bronze in the half year ended 31st March 1929, nor were two anna Nickel coins minted in the half year ended 30th September 1927; but the cost of the latter coinage in the half year ended 31st March 1927 amounted to Rs. 19:16 per 1,000 pieces.

56. Percentage of good coins.—The following percentages of good coins were obtained from the metal put into process:—

Silver Buyen			1	争				4	1 1	69-49
a F =			a	6	10	ů.		-	4 7	01-93
Nichal 2-Anna						lk.				64-20
	,	~		4		Е,				61:30
Bennis Pine	,	,	-4	-			-		2 4	64*14
. Pis			-	ii.	19	÷	4			60-05

57. Losses on withdrawal of uncurrent cons.—These losses arise out of the difference between the nominal value of the uncurrent coins withdrawn from circulation and their bullion value to the Mint calculated on their weight. The details of these losses in 1928-29 were:—

							Ra	
Street Colons				10		1	7,59,534	
Nickel					-	- 2	24,452	
Drunes	T	,	я	F	ril.	de	41,709	
							-	Ea. 9,25,745

58. The costs of the Bullion Office and the remittance room both of which are engaged on the work of examining these uncurrent coins amounted to Rs. 1,14,428. The bulk of the coins examined were of silver, and this expenditure was distributed for purposes of coding in proportion to the number of coins of each metal examined. The distribution was as follows:—

						Ha
Silver -	.:		3		4	90,501
Nivkol .						
Bronger		T.			2	18.500

Ha 1,14,428

59. There was a gross loss of Rs. 4,59,204 in the year under review, and a gross profit of Rs. 7,20,683 in 1927-28 which resulted from transactions on Silver, Nickel, and Bronze as follows:—

50		\$840	ata.						1907-28.	1928-89.
KIT-AND To See The Control										Ba
Long on Silver to	July 1								2;55,872	0,03,057
m n Brenze	99								3,06,036	27,649
								Ħ		0.40.900
35									3,64,408	9,10,736
Profit on Kickel	transmitio	HW		•	•		141	9	10,65,001	4,81,532
								-		
	Profit				100				7,20,683	HH
	Loss					-				4.30,204

The reasons for this loss are summarised below :-

- (a) While allver coins were minted in 1928-29, there was no such coinage in the previous year. As already pointed out in para. 11 (d) above the Mint accounts aways show a loss on manufacture of allver coins.
- (b) In accordance with the re-distribution of work between the two Mints the major portion of un-current silver coins were sent to the Bombay Mint, and the increase in these withdrawals resulted in an inflation of the loss under this head. The figure of loss against this transaction exceeds that of the previous year by over Rs. 5 lakks.
- (c) No Nickel coinage was undertaken in the second half of the year 1928-29. This coinage is the main source of profit to the Mints.

Reference is invited to the following figures of output in the two years and attention is drawn to the fact that the profit per 1,000 pieces is approximately its. 100 and Rs. 50 on two and one-anna coins respectively:—

Year.									Out-put.			
五. 月(1) · · · · ·										2 Arius	1 Aans.	
1027-99		V-1		æ	l a	À	y.	9		48,04,000	1,29,62,000	
1928-29	a .0	181	9		4		*	*		24,76,000	48,31,400	

- 60. Part of the general charges of the Mint were excluded from the Mint costs and transferred to the Currency Department, the reason for this arrangement and the basis on which it is made being set out in para. 41 (c) of the general remarks prefixed to this review. The proportion transferred to Currency was 40 per cent, in the first half of the year and 60 per cent, in the second. The reason for the increase was that the Mint was idle for a longer period in the second half. The average in previous periods was 40 per cent, to Currency and 60 per cent to the Mint.
- 61. Assay Office Costs.—The receipts on account of Assays done for the public was Rs. 6,347 which left a balance of expenditure amounting to Rs. 93,206 for distribution between the two Mints. This distribution was made on an arbitrary basis of nine parts to Bombay and one to Calcutta; the Bombay Mint was therefore debited with Rs. 83,885. The basis has been changed since and under the orders of the Government of India the share of each Mint in future will be in proportion to the assays carried out for each.
- 62. Silver Refinery Costs.—Operations in this Department began in March 1929, and there was no output in 1928-29. The whole of the costs are shown in the Profit and Loss Account.
- 63. Standard Melting Costs.—Part of these costs are debited to the coinage and the balance is transferred to the Profit and Less Account. The allocation is based on the quantity of metal melted and that issued to coinage:
- Department amounted to Rs. 14.697 in 1928-29 and to Rs. 13,303 in 1927-28. This Department amounted to Rs. 14.697 in 1928-29 and to Rs. 13,303 in 1927-28. This Department is engaged on the manufacture of medals, tokens, etc., for sale and dies for coming purposes. The recoveries from sales of medals, etc., were examined with a view to seeing that the rates at which they were sold were adequate, and it was found that they were. The excess of expenditure over receipts is the mainly to the fact that the rate charged to the coinning for dies was inadequate. The issue rate was fixed empirically by the Mint Master at Rs. 5 per die. The reason why this rate has proved inadequate is that with the gradual reduction in coning the number of dies manufactured has also been reduced and their cost has risen in consequence.

- 65. Gold Melting and Refining.—There was a Profit on this account which amounted to Rs. 38,011 in 1928-29 and to Rs. 31,535 in 1927-28. The gold treated was from Indian mines and from merchants.
- 68. Dross Recoveries.—The cost of treating drosses and the recoveries therefrom during 1928-29 is set out below :--

Item		Civist	Value	of mooreri	os.
49000		Coats	Gold.	Silver.	Total.
		Ra.	Ra.	Ra.	Ru.
Treatment of gold dross		7,878	7,121	6,906	13,026
m malbree m - , , .	•	7,416		20,732	20,732
Total		15,294	7,121	26,657	33,758

That it pays to treat drosses is evidenced by the surplus of the recoveries over the cost of treatment which amounted to Rs. 18,484.

67. Balance Sheet.—The following additions to the Fixed Assets were made during the year 1928-29 :-

Item.		Mins proper.	New Silver Belinery.	Assay Office.	Total
		Ba.	Be	Re	Ra.
Buildings		168	1,96,866		1,97,003
Plant and Machinery		2,396	40,139	888	43,109
Furniture and Fixtures		646	42,816	**	43,462
	Total	3.200	2,79,811	563	2,83,594

The additions to Buildings represent the cost of erecting Nickel Bins for the Mint, Rs. 158, and the cost of the electrolytic silver refinery including a new guard house, Rs. 1,96,865. The Mint plant was added to by the purchase of a Universal Cutter and Grinder at a cost of Rs. 2,396. The additions to the Silver Refinery plant included a lift, and a multi tubular boiler, and the amount of customs duty paid on imported machinery was also brought into the costs. A D. C. Motor Generator was purchased for the Assay Office at a cost of Rs. 583. The electric fittings and sundry articles of furniture in the alver refinery cost Rs. 42,816.

- 68. The stocks of consumable stores are being reduced gradually, and every endeavour is being made to dispose of surplus and unnecessary stocks. Stock taking is carried out annually by an Assistant deputed by the Mint Master. The Bullion Stocks were verified by the Examiner of Outside Audit in April 1929.
- 69. Sundry Debtors, Rs. 3,066.—The whole of the outstandings represented by this figure were settled before July 1929.
- 70. The Capital Account is debited with all outstandings transfers and adjustments from the Mint accounts and credited with the value of uncurrent remittances received, cheques drawn, and Mint charges met by the Currency Department. The balance of this account on the 31st March 1929 amounted to Rs. 24,34,273.

HIS MAJESTY'S

71. Balance Sheet as

and the same of th	Lais	abilikin		in .	ter			1027-28.	1028-20.
			-					Ra	Rai
Sundry Coefficer			7.1				7	1,03,532	1.20,230
Northbrook Medai Fund						14	-	167	Lega
Carrency Chest							14	4,21,70,615	1,64,80,785
Treasury Remittances unde	T CI	amalaan t	og.	-4				8,24,443	17.
Hilver for mlo			,					÷ +-	10,72,022
Depositation Reservo .			2			*	14	(12.33)	1,07,900
Reserve for Assay charges .			ь	4			-4	44	4,500
Front and Loss A/o					4	16		18,59,394	17,44,709
Government Capital A/c			-		а	T	,	10,71,201	94,00,460

Total Re . 4,68,14,797 9,07,53,033

(Sd.) W. J. BOLST,

Accountant, His Majesty's Mint, Calcutta-

MINT, CALCUTTA.

at 31st March 1929.

		Amel	44.					1927-78.	1928.24.
-								Rs	Ea.
								2.06.344	2,71,618
mildings lant and Machinery	3				- 0	н		2.82,372	2,09,327
windups and Matters	Н	p 5	B	8	4.0	9	·	22,883	22,643
addam Stocks—									
Met (Gold							F	17,091	18,024
r Silver		в, я	-		н	4		1.75,899	14,30,421
Coll								07.13,824	67, 13,820
Coronay Silver						-	1 5	22,72,870 22,72,870	87.72,005 72
hand Corn Bilvier .	-	1	11	100	-4.				10.72.022
ther for the	* 120	y #				4	-3	3.521	7,572
the Copt. Gold Billian	ï	1 1 2		#: #	el .		Я	3,740	1,507
Ottor Motal Steak — Bronze . Nichai			N.	-	ł		a d	7,45,941 0,22,421	4,10,857
fundayi Cam Stook —								11/0	1
Denta .	4		40	-			- 5	1,09,100	35,4(4)
Niekp	1	а -	-	4				0,53,500 4.81.485	1,50,500 4,12,005
Communishe norm	t.	a	1.5		3			47,110	55,417
Stock of Medale Communy Howeltham on	and from a	er Ar na 1800 birnen F Circu	in -			2	-0	8.24.443	4,94,678
Angeles Deliler .	William darketing and	THE PART DESCRIPTION	u,					14,095	0,440
Chapman in this many by Chaps	mital			Ь				01,900	63,92
Realthan Llog, acommissibil	33	0.1		,				- 45	16,039 50.479
Nort in promos							-	1,074	1,441
improst and Cash in ho		4				-7"		1,014	# 5 TOTAL
									- 2
									13
									-

(Sd.) A. RENGASWAMI IVER, Asst. Director of Commercial Audit,

Calcutta Circle.

(Sd.) M. STAGG, Major, R. E., Mint Master, His Majosty's Mint,

Calcutta

HIS MAJESTY'S MINT, CALCUTTA.

72. TRADING AND PROPIT AND LOSS ACCOUNT, FOR THE YEAR 1928-29.

Dr.					5
Partivialars.	1928-20.	1027-25.	Particulation.	1028-29.	1047-28.
	Tu.	F		Ra.	Re
To Opening Inflance of Salabed coins	10,61,600	8,50,600	By Lane of coinage	10,57,073	22,70,426
Cont of coinages	40,30,481	15,52,430			
Loss on withdrawal of Uncurrent colust .		2,80,980	Wheel or he former off the filling confees	1 Sha Brian	10.48 800
Ballings affice confin	09,410	08,890	A series parastra to accomply fitteens.	THE PERSON NAMED IN	2445 SALE
Grose Profit carned down	15,07,643	6,103,2/20			
	12,61,975	33,41,026		72,61,973	33,41,000
To Loss on sale of pickel	1.	19,510			
Ditto. bround	1	38,907	. Gross profit brought down	10,07,043	5,93,266
Expenditure relating to ask of alres	:	2,073	Melander Management Milant samuels	Visio	- 5
. Dros reservating		E . 19 (19)	O ONE OF THE PROPERTY OF THE PROPERTY OF		
" Pucking nichal.		000'6	Special Beosipts	1,46,370	
a Other melting costs		10,078	M. A. S.		94 050
". Yaine of Stones written off	4	400 M		:	2000
Net Profit during the year	17,44,700	A SELVING			
	17,44,700	6,28,200		17,44,700	0.28.208

HIS MAJESTY'S MINT, CALCUTTA.

73. The accounts of the Calcutts Mint for 1928-29, in a summarised form are prefixed to this review.

74. The quantity and cost of coins manufactured during 1928-29 and 1927-28 were as follows:—

	H	100			1997	28.	1908-2	9.
				-	Pieces.	Cost.	Piece	Cont.
-		Į.				Re		Rs.
Silver cuina .		i.	-	1	20,31,863	10,84,775	80,62,400	30,81,370
Nickel		*	-18		1,34,16,000	2,86,075	3,56,16,000	1,88,458
Bronzes				Ŧ	1,96,22,400	2,30,224	4,57,80,000	4,00,000

As compared with the year 1927-28 the value of coins manufactured during 1928-29, increased as follows:--

Silver	h		in .	*		a.	*	192 per cent.
Wickel	ē		19		÷	-		00
Bronze		į.						96

 Silver coinage. — During 1928-29, 40,49,500 pieces of silver, half-rupees and 40,12,900 pieces of silver, quarter-rupees, were minted against 20,31,853 of half-rupees only during 1927-28.

The detailed cost of manufacture per 1,000 pieces, during 1928-29 of these two coins was :-

			Itam							Cout per 1,000 pieces.		
			# rain	la.						į Ro.	Į Re.	
Labour		,	,				4			74	*55	
Communable stores					-					-16	:18	
Departmental charg	700	4	á	4	sale.		-			2:19	1.78	
Diso		-	F						-	-40	72	
General charges		-			P					2-51	1-88	
Cost of Bullion		- 5		1	-	٠,	-		· F	600-23	250-14	
Malting charges			1		FI		,		ı	1:14	-65	
				1	utal o	ant fo	r 1928	92.5	*	607-46	285-78	

The total cost of manufacture per 1000 pieces of silver, half-ropecs, during 1927-28 was 519-12 against 507-46, during the year 1938-29. The reason why silver coinage must always show a loss has been explained in the introductory remarks to the Mint accounts.

In the following statement the cost of manufacture, value of outturn and the loss per 1000 pieces are set out :--

Colmago.	No. of paces bundle fastured.	Cost of manu- factors.	Nominal value of outturn	Loss in manu- facture.	Cost per 1000 pieces	Nominal value por L/000 pleess.	Loss per 1000 please.
-	-	Na.	Rs.	Ra.	Ita.	Pla.	Ba.
Half-rape .	40,49,500	90,54,960	20,24,750	30.210	507:48	600	7*40
Quarter repeats -	4J,12;9°0	10,29,401	10,03,225	23,176 69,106	255-78	250	B-78

The loss on silver coinage, during 1928-29 was Rs. 53,395 against Rs. 38,848, during the year 1927-28. The proportion of the loss to the total outtarn decreased in 1928-20, because of the larger outturn:

76. Niekel coinage. Of two anna pieces 60,48,000 and of one anna pieces 2,95,68,000 were manufactured, during the year 1928-29 against 1,10,672 pieces and 1,15,403 pieces respectively in 1927-28. The detailed cost of production is given below:—

Condition and			M				1	450	ng bri 1000 bj	mo(= 1008:00
		Hem			-	-	toni ales	-	Two nuns	One anna
Labour		¥			4				-58	85
Cincumulate states .									-33	- 100
Linguistania charge	-		4						1-46	1:33
Dies									-03	69
General charges .							4		2-12	0-15
Cost of Bullion .					p.		100	(6)	0-84	627
Melting charges .					4		3	W)	3-17	1/71
He man				Total	al incent.	1028	1.20		17-10)	12-85

Against the cost given above the cost of production during 1927-28 of the two coins was 19-76 and 18-33 per 1,000 pieces. The chief reason for the decrease in costs in 1928-29 was the larger production in that year. The credit taken into the Mint accounts for issues was at the nominal value of the coins and the profit resulting therefrom is set out below :-

Comega	Number of please tured.	Case of manuac- ture. Rs.	Nonmal value of outliers	Profit m monutos- j ture	per 1,060	Noungal value per 1,000 pie.es	
Two anna piness	E. 6,048,410	1.08,424	Ha. 7,56,000	Rs. 6,47,678	Ita. 17-93	Rs. 125	10- 167-07
One sons pieces	2,856,500	1.00.00,8	18,48,000	14.07,006 21,15,841	12.45	02:50	4943

During the year 1928-29 the two factors of increased outturn and decreased costs contributed to a profit on Nickel coinage of Rs. 21.15,541 against Rs. 10,37,576 during 1927-28.

77. Bronce comage. - The quantity of coins manufactured was :-

-	4			1			67		1028-29	1027-28
			iner.		-	8 1		ALT:	Picons.	Pinons
Pica .		1.	4			-	-	1	3,22,43,500	70,72,000
Half-pice .		1	77	in .	186			b	54,22,500	88,68,000
Plan, .	5	1						4	#0.64,000	66,62,400

The details of the cost are as follows :-

Count year I,O	Telijania	MES-	智品。
----------------	-----------	------	-----

							Sharle piès	Half pos.	Pion
Last Marie		.,	,	4			-52	10-4	-60
Consumable Stores			r	*	ie.	725	19	-14	-14
Departmental charges			in.	1	in	g	1-24	1 29	1/18
Dies .		-		è		-	181.7	"TAG	바람이
Coperal Charge .				34.	*		1 45	290t	1 61
Cost of Bullion Melting	e e fran		*		- 11		7-00	3-63	2.71
Total cont life	y. 29				В	d	1197	H:17	6 92

The corresponding costs in 1927-28 were 15:43, 10:51 and 16:24 respectively. In each case the increase in the outturn during 1926-29 chiefly

accounts for the decrease in costs. Credit being taken for issues at nominal values the resultant profit or loss works out as below :--

Dolmage.	Number of pieces manufac- tured.	Cost of	Nominal value of outturn.	Loss (-) on	Cost per 1,000 pieces.	Nominal value per 1000 piocea	per 1,000
Single Pice	Rs. 3,22,43,200	Ra. 3,70,181	Ra. 5,02.800	Ra. 1,33,660	Rat, 11:47	Ka. 15-52	Ra. 4:15
Half pice .	. 54,52,800	41,533	42,600	- 1,033	8:17	7:53	-0.36
Pine	. 80,64,000	54,988	42,000	-12,968 1.18,748	0-82	9-21	-1.61

During 1928-29 profit on Bronze coinage amounted to Rs. 1,18,748 against a loss of Rs. 60,532 in the year 1927-28. Single pice, on the coinage of which only there is a profit, were minted in larger quantity during 1928-29 3,22,43,200 pieces against 70,72,000 in 1927-28. This fact together with the decrease in costs, due to larger outturn accounts for the better results during 1928-29.

78. Profit and Loss Account.—The net profit during 1928-29 amounted to Rs. 17,44,708 against Rs. 5,26,092 of the year 1927-28 as will be clear from the table below:—

	Profit or Low () Total	9,28,100	03,880	3,27,9403	6.16.313	9,770	Ea. 5.26,002
	Frollt or P. Loss (-) L. Dronze,	## PP 000	-1,185	-81,676	-1,63,883	÷	2
1027-58.		10,37,076	-1.150	008/28	0,03,621 —1,		-34/1
	ir Peofit or) Loss () Nieled.	-			0.00		
711	Profit in Low () Silver.	88 88 88 88 88	-01.648	-1,03,452	2,68,915	III I	1 00 1
	Profit or Loss (-) Total.	21.80,804	911'00-	18.83	15,97,043	1,47,098	Bs. 17,44,768
1628-20.	Profit or Loss (—) Bronger.	1,18,748	-28.523	-1.18,007	-27,632	1	
-	Profit or Loss (-) Nicked.	1,10,641	1100	4,17,600	11/20/21	1	4
	Profit or Loss (—) Silver,	68,896	-34,879	-2,78,778	-3,66,052	1	
			,				
	I formal.		-	chourtes			
	Ite	4	TRUE COID W	of states of		POUR Becel	the year.
		Colpagne	Cost of uppurrougt com work	Loss on withdrawals of unourroud coins and sale of metal		ddd Macellagrous Beceipts	Net Profit for the year.

HALANCE SHEET.

79. Government Capital Jeconni.—The net capital debt due to the Government of India by the Calcutta Mint as at 31st March 1929 exclusive of the balance of the Currency department and the profit of Rs. 17.41,700 which accrued during the year, works out to Rs. 22.09,685. The corresponding figure at the end of 1927-28 was Rs. 19.71,261. The increase is partly due to the inclusion under the head "Government Account" in the accounts of the year 1928-29, of the Lalance of treasury remittances under examination, (which was exhibited as a separate item, on the hability side of the Balance Sheet in the year 1927-28); indirect charges due to Government and one or two similar items also explain the increase.

The amount due by the Mint to the Currency department for the currency reserve held in the Mint on 31st March 1929 was Rs. 1,54,36,765 as against Rs. 4,21,79,675 at the end of the preceding year. These talances fluctuate according to the operations of the Currency department. A further pum of Rs. 10,72,922 was also due to the Currency department on 31st March 1929 as the value of silver bullion set apart for sale.

80. Plant and Machinery.—The valuation of the Plant and Machinery at the end of the year 1928-29 amounts to Rs. 2,99,327. The additional thring the year include the value of electric plant acquired for converting the ulternating current purchased from the Calcutta Electric Supply Corporation into direct current suitable for use in the factory.

The disposals of Rs. 37,800 shown in 1928-29 represent mainly the bookvalue of electric generating plant which is no longer required in view of the decision to obtain the electric current in future from the Electric Supply Corporation, Calcutta.

- 81. The total value of the fixed assets at the close of the year 1928-29 representing buildings, plant and machinery, furniture and fixtures amounted to Rs. 5,93,591 while the accumulated depreciation reserve provided for the renewal of the buildings and plant and machinery amounted to Rs. 1,07,990.
- 82. Consumable General Stores.—At the end of the year 1928-29, the value of these stores was Rs. 4,12,003 as against the balance at the communication of the year of Rs. 4.84,485. This represents the value of the balances of stores as they appear in the Priced Stores ledgers. The question of revising this valuation with reference to the market rates is under consideration.
- 83. Hullion stocks.—The value of Gold and Silver builion at Sist March 1929 including the balance in the Die Department was Rs. 1,80,41,081 and the corresponding figure on 31st March 1928 was Rs. 4,23,50,225. The value of other metal stocks (viz., Bronze and Nickel) at the end of the year 1928-29 was Rs. 8,23,417, as against Rs. 13,68,062 at the end of the previous year.

The verification of the balances of coin stocks, Gold and Silver buthon, other medal and metal stocks at the end of the year 1928-29 has been carried out by the Examiner of Outside Audits, Bengal, in accordance with the rules prescribed by the Government of India.

CHAPTER III. GOVT. OF INDIA- FINANCE DEPARTMENT. Central Board of Revenue Concerns.

NORTHERN INDIA SALT

84. Balance Sheet

1928-29. Re. Re. Re. 2,43,14 5,900 11,38,000 2,48,755 ———————————————————————————————————
2,43,14 5,900 11,35,000 2,48,755
5,900 11.85,000 5,48,755
2,48,765
13,84,68
1.09.56,980
(0.030 - 0.030 93.53,08
ar, usu — Sar, usu isa
NO 962 1063

REVENUE DEPARTMENT.

as at 31st March 1929.

Ananta.		1927-0	8.	1028-2	1928-29.		
		Ra	Re-	Re	Et a.		
tand	v		1,05,709		1,06,799		
Buildings		10.06,883		11,42,102			
Additions during the year		40,343		35.511			
		11.42.178		11,08,614			
Dedect-Sales and Transfers .		70		1,262			
Roads and Bridges		58,339	11,42,100	66,839	11,97,332		
Additions during the year		480	56.610		-5A.810		
Plant and Machinery	,	14,23,383	200	15,84,454	-Fire of the a m		
Additions during the year .		6,613		23,867			
		18,31,896		16,18,321			
Reduct-Sistes and Transfers		47,449	18,84,464	01,279	15,27,042		
Other Works	E.	51,00,741		53,59,539			
Additions during the year		1,05,252		1,66,180			
		53,61,000		55,14,709			
23-dest-Sales and Transfers	7.1	2,404	13.50.320	1.843	10,12,600		
Furniture and Pittings		m's	41,317	1	41,317		
General Store		* 6	11,84,685	14	0.02,683		
Depreciation Found Investment Account	di.		11,38,900	ej B	13,84,656		
Sundry Delitors	×		7,63,394		7,660		
Profit and Loss Account per contra		14	an des	**	4,24,497		

NORTHERN INDIA SALT

85. Comparative Special Abstract Trading and Profit and

Dr.

Particulars.	Samt	har.	Ladw	ricp.n.	Pachk	adm.
	1927-28.	1928-29,	1927-28.	1928-29.	1437-28.	1928-29.
	Ein.	Ha.	Ba.	Ela.	Rs.	Ra.
To Lom on Bags .	1,071		18.8	8 . 0	21	**
" Long on Salt .	. 1,85,756	4,08,090	14,060	10,282	1.06,065	82,841

	Total	. 1,84,4	655 4,08.0	000 14,0	2,01 (180	82 1,06,486	82,841
Khav	rra.	Wate	ha.	Kalah	mgh.	Tota	L
1027-28.	1028-20.	1027-28	1028-20.	1997-38	1928-29	1927-28.	1028-29.
E Ra	Ra	Rin.	it.	Ra	lts.	Ha	Ha
1 A. 187	4.6	19.4	9.1	8.0	# 4	2,397	**
Ē5,01,334	3,25,673	20,750	-1,878	16,428	12,090	8,44,772	8,37,608

5.04,721 3.25,673 20,760 -1,878 16,428 12,000 8,47,100 5,37,008

⁽A) These figures differ from the corresponding figures above in the Consolidated Profit in the case of Sambhar which were included by the Audit Officer, Indian Stores Department, in Khawin and Warcha, the differences are due to Es. 8,782-13-5 and Es. 1,254-11-6 on account from Warcha to Khawin during the year. A further difference of Es. 105-14-5 and Es. 14-1-5 and dispatch respectively having been adjusted by the Audit Officer, Indian Stores Department.

⁽a). This figure differs from the corresponding figure shown in the Comolidated Trading and adjusted by the Audis Officer in his March 1928, Supplementary Statement.

⁽b) This figure differs from the corresponding figure shown in the Consolidated Trading and to old indents on account of price of Salt and dispatch charges respectively as intimated by

REVENUE DEPARTMENT.

Loss Account by Products for the year 1928-29.

Cr.

Parti	coles	8	ambhar.	D	idwans.	Pachb	milita.
		1927-2	1928-25). 195748	1928-29.	1027-28.	1028-29.
		Rs.	Ra	Ra	Ru.	Re.	Ba
y Profit on		. 1,61,6	1,22,4	78	**	809	6,586
Profit on Profit on		a de p	-9	62	11	le n n u	-3
By Missella	neous Receipt	to.					
nterest or		of 21,7	87 29,1	05	0 94	459	678
Depresinti		(A)	(a)			Lange	-0.200
Other get	nnisodiano				22 121		6,468
Net Loss	1 4	2.45.7	91 76,	102 13,8	77. 10,059	1,04,149	69,134
		-					-
	Total	. 1.84.4	155 4.08.0	000 14,0	69 10,289	1,00,480	82,84
		-		1			
Khe/W	Tim-	Wase	la m.	Kajabi	gh.	Total	
1927-25,	1928-29.	1927-24	1028-20	1927.28.	1028-29.	1927-28.	(928-29,
Re	Rs.	Ra.	Ra.	Ra.	Ra.	Ra.	Ra.
10,030	69,490	14,502	18,451	**	W ke	1,90,709	2,14,190
1,360	3,256 13,776	41	**	4.6	of a	1,269	2,204 12,81
12,786	18,048	1,477	1,998	218	283	35,878	50,276
Ē (A)	(6)	(4)				(A)	
	19,013	10,442	645	667		2,5+,363	1,98,583
1,380 1,380 12,786 (A) -1,328				18,558	10,845	3,60,904	3,59,001
1,326 4,78,876	2,11,200	-6,761	-19,972	E m/district	10,000	HI WAY WAY	righteen, Lahoue

and Loss Account owing mainly to the adjustments of Rs. 8-5-9 relating to Disputch charges the cash indents received but not in the receipt statement submitted by him. In the cases of of price of sult and disputch charges respectively, indents for which amounts were transferred in the case of Kheerta is time to the above amounts on account of old indents relating to price in the opening balance of each indents on ist April 1927.

Profit and Loss Account on account of the adjustment of Rs. 24-5-0 and Rs. 14-1-0 relating the Audit Officer in his Cash Indent Account for Khewrs.

Profit and Loss Account on account of the adjustment of Re. 2-5.9 relating to dispatch charges

NORTHERN INDIA SALT

36. Comparative Consolidated Trading and Profit and

Debits.

	Saml	dar.	Dichw	9.00a-	Paidshi	dn
Particulars.	1927-28.	1928-29.	1027-25.	1028-29.	1027-29.	1928-20
	Ro.	Ba.	Ha.	Ro.	Har	Han
	(A)	(0)	(B)	(6)	(C)	(e)
To Salt Stock at (commence-	33 44 694	0.88,180	16,730	18.705	1.54.011	70.140
Bourget)	11,44,624	0.09,100		51.492	高野,北望	03,074
Weighment Charges	1,37,605	1,08,833	0.095	6,217	20.250	27,000
Bhare of Commissioner's	This Literary	1,00,003	111111111111111111111111111111111111111		ga-a-8201	
Charges	117,607	41,600	2.567	2,121	e,Tip	8,666
" Medical Charges	9,123	8,087	130	120	11.516	2,767
" Royalties and Salt Compen-	la dia diam	9,73.716	11,040	11,409	12.010	25,706
mation	b; 15,620	2	11000	10000		
" Fundamary Charges	36.503	24,000	643	2,054	6,320	TAKO
pay paid in England .	11.047	11,601	200	160	086	007
a laterest on Capital outlay .	2,00,100	1 7,44,42	5 57	e 1,6940	Ophil.	i I aleks
" Lepischilon Charges	1,59,017	1,60 000	ı em	11:8	A.Maria	7,530
Fatablishment .	. 69,131	5 12,64	4 1,050	8 1,:51	0,02	4.792
- Stationery and Printing	2.818	3,241	1 21	I gate	781	加丁1
Contribution of Bogos to Provident Fond	***	**	96 B	ii 4	4.4	a t
Other House,						
					m 11 m	1 700
To Rehmela (Sale precents)	- 22.51	B 27,00	19 2V	1 3,806	000	1.735
Bevenus Recupts) .	. L .	1 8	2		新	**
mont)	. 1,12,10	0 7,05,21	6 -23	4 - 730	-1,415	-4,761
, Falt Indepts (at close)	S H H	U0,60	8	4,640	9.4	1,20,500
Vegs Account-Less	1.67	1	· · · · · · · · · · · · · · · · · · ·		2 9	
Total	. 32,61,04	ua 37,03.8	ds 72.34	61,22	v <u>L</u> (4,6)	b 3,90,407
- Training						Ra,
(A) Mds. 45,78,556 of Burn	ilder Salt 1	rained at th	e selling y	price C-t-	-0 per max	and 17,44,004
(B) _ 1,49,888 Duly		da. di	ك ب	o. <u>O- 9-</u>	-0 de.	19,770
(C) 8,05,395 ,, Park	hade (do. de	i. di			1,01,01
(D) 3,85,000 Kho		do, de				84.110
(E) _ 70,000 _ Wats		la. do				10,312
(F) 4,019 Ralah	hagh d	a. da	de	. 0-3-	do.	574

REVENUE DEPARTMENT.

Loss Account for the year ended 31st March 1929.

Khewi	EN-	Ware	ha-	Kalabi	igh.	Total	lac
1927-28.	1928-39.	1027-28.	1928-29.	1027-25.	1929-29.	1927-28.	1928-29.
Ro.	Ra.	Re	Re.	Ba,	Rs.	Ra.	Ra.
(D)	(d)	(E)		(F)	(0)		
84,219	68,824	15,813		879	310	14,14,792	8,89,496
0.78,207	6,68,189	93,081	02,520	18,401	42,911	13,582.17	14,81,880
83,659	66,763	n,ash	8.1/76	4,7,10	8,557	2,02,014	2,11,009
			2752	4 42 10		8 16 1100	7.73.403
81,847	47,176	6,090	8.187	6,209	6.002	1,10,026	1,14,454 24,166
9,384	9,423	2,604	2,994	110	160	SOVIE	With a Kirter
10.1		**	44		**	8,40,488	10,10,890
29,024	24,062	2.334	8,000	1.025	2,919	76,956	76,418
16,163	8,532	792	825	733	421	90,178	20,170
1.20.206	1,27,101	11,761	9,700	2,781	2,700	4,02,683	4.97,260
1,82,570	1,14,770		10,328	1,031	1.058	9,69,109	9,93,000
10.0				9.140	2.620	A6.923	63,133
26,068	20,023	2.286	4.810	3,140	Mark Control	45,750	
3,130	4,369	83	77	71	(2)	0.921	9,230
1,290	1,771	77		9.00		1,290	1,771
1,019	1,639	000	602	4.9	1.421	25,604	26.296
õ	ä		0.0		1-9	2,970	86
4.632	62,870	-68,509	—76,00a	-8,673	-7.302	40,411	6,80,113
			84,398		47,075	-	1.05.258
**	-1,84.125					2,837	
3,397	n.	4.		0.1	0.0	2,001	
					-		_
12,71,998	10,34,415	04.355	1,21,368	86,207	1,48,100	601,104	54.85,680
- Contract							Re
					127		
	0.02,205 of S				urino V—L—3 do, 4—3—		16,99,180
(6)	1,20,637 _ I 3,78,697 _ E		do.		no. 0-3-		75,907
(8.00 04	3.12,340 I		do		do. 0-5		68,304
(0)	1,420 %		du.	de	da 0-2-	THE	
100			21 19		- marriedy	1000	
				51		S I Head	3
		1	- 5 3	79	N.	3	= (
		1			-	101	13

NORTHERN INDIA SALT

86. Comparative Consolidated Trading and Profit and Loss

Credits.

		Sam	bhar.	Didwana. Pac			b badra-	
	Particulare.	1927-28.	1928-29.	1027-28	1928-29.	1927-28.	1938-29.	
		Ra	Ra.	Ra.	Rea	En.	Ba.	
Ву	Sale proceeds of Salt.	16,60,577	27,12,527	43,349	85,011	86,466	2,72,803	
	Sait indenta (at close).	7,06,216		-736		-4,341	10	
84	Mincelianeous Revenue	2,50,370	1,70,520	122	129	1,069	6,406	
	Receipts. Interest on Balance of	21,367	29,165	79	95	480	677	
No.	Dipreciation Fund. Stores and Workshops and Electric Power	9,071	-11.945	***	**	- 19	**	
00	House Estt. Profit on Dispatch Account.	1,61,659	1.32.687	**	**	810	6,586	
80	Profit on Gypsum .	1.4		**	**	**		
	Profit on Bage		962		**		-3	
		(G)	(1)	(H)	(0)	(1)	(h)	
90	Sait Stock (At close)	6,99,180	5,95,111	15,705	15,995	76.907	40,806	
67	Not Loss	-2,45,791	76,762	13,877	10,069	1,04,149	69,113	
	Total .	32,6) 668	37,03,863	78,387	81,289	2,64,619	3,96,447	

Certified that the figures contained in this account have been reconsiled with those furnished Supplementary and that the figures for March 1929 Supplementary will be incorporated in the

S. C. DASS,
Personal Assistant to Commissioner,
N. I. S. R.

KIRPA RAM, Head Accountant, (Books).

(0)	Mela.	26,32,208	of	Sambhar !	Sult	vaduod	at the	willing	price	0-4-3	per	maind	=Ro.	6,89,180
(H)	99	1.25,637	10	Didwana	10	w	200	14	-	0.2.0	8.0	87	= Ra.	15,706
(1)	00	3,73,697	40	Puchbadn	n _{ex}	00		0.7	83.	0-3-3	10	ba	=Ba.	78,907
(3)	3.6	3,12,340	90	Khewra	10	011	112	91.	500	0-3-6	24	0.0	= Ha.	68,324
(E)	90	1,420	94	Kalabagh	80	19			-	0.3-6	99	po.	=Ra.	311

REVENUE DEPARTMENT.

Account for the year ended 31st March 1929-contd.

Khet	wh.	Wars	/ Julia	Kalah	ogi.	Total	i
1927-28.	1928-29.	1927-28,	1928-29,	1927-28.	1928-29.	1927-28.	1928-29.
Ra.	Ra	Ba	Ra.	Ba	Ra	Ra_	Re
5,37,842	5.52,963	1,50,830	1,21,967	70,831	1,34,808	25,61,901	38,50,079
62,870	44	15,093	e =	-7,302		6,80,113	2 4
8,834	20,016	405	045	057	962	2,61,457	1,98,728
12,266	18,049	1,477	1,998	218	200	25,874	60.276
89,277	02,900	1.174	1,307	4 8	# 4	90,622	82,168
12,371	50,466	15,847	15,450	p4.		1,90,687	2.14,189
1.240	3,250	4.0	44	as a	**	1,269	3,256
**	13,776		2.1	44	+-P	k.iF	12,311
(4)	(6)		(8)	(K)	(A)		
68,324	62,781	4 10	В	311	1,212	8,59,427	7,15,907
4,78,875	2,11,200	-5,761	-19,971	10,366	10,844	3,60,004	3,58,006
12,71,928	10,34,412	94,385	1,21,398	88,207	1,48,109	30,31,154	54,95,590

by the Andrt Officer, Indian Stores Department for the year 1928-29 including March 1928 accounts for 1929-30.

S. C. SEN,
Amistant Amist Officer,
Northurn India Circle (Commercial).

(/)	Mila.	22,40,418	al	Sambhar	Salt	valued	at the	e Hing	pelse of	Re	0-4-3 p	er má	Les Sal	5,95,111
(a)	-this	1,02.305	usi	Didwana	190	884	100	100	22 198	rot.	0.2.4	28	= Ra.	15,995
(A)	de	2,00,885	ni.	Pachlada	al pa	H	PN	194	90 10	103	0.3-3	961	= Re.	40,805
(6)	ài	2,57,000	-68	Khewra	H	F#	PS	p-in	19 198	-94	0.3-6	Adl	= Rs.	62.761
(j)	81	16	10	Waroha	98	77	AVETAG	o eusit c	d produ	urtko	n of Re	0.3	6'45 pm = Ra.	
(4)	**	5,640	100	Kulabagl		per 1	Ming	price	of	Ra.	0-4-8 p	er en		-

NORTHERN INDIA SALT

87. Comparative Cost Sheet of

	Sam	bhar.	- Dia	FAGUE.	Pachimira.			
	1927-29.	1929-29,	1927-98.	1928-20.	1927-28.	1928-20		
	Ra	Re.	Ras	Ra.	Rs.	Ra		
Opuning Balance	11.03,426	7,93,483	50,953	28,000	2,04,959	1,97,233		
Charges for the year.	-							
Manufacturing charges . Bhare of Commissioner's basedquarters	4,90,707 37,807	4,08,217 41,305	29,780 2,567	31,421 2,336	39,622 5,799	93L674 8,688		
Royalties and Componen-	8,14,836	9.73,718	11,040	11,469	13,610	25,706		
Interest on capital Deprociation charges Weighment charges Expenditure on Medical, stores and wirkshape,	2,00,100 1,39,017 1,37,006 69,040	3,44,428 1,62,223 1,08,833 68,460	070 869 8,008 2,729	1,800 488 5,218 4,224	6,803 8,801 30,856 14,342	11,480 3,836 27,063 16,078		
phenimary charges, leave salaries, bosto to pro- vident fund deposits, cost of audit and account- ing and stationery and printing.								
f. i itt poersit								
						1		
Total .	31,01,664	20,26,830	1.04,037	85,061	4,19,192	0.81,778		
	Mile	Make	Mus	Mca.	Mile.	Mdn.		
Manufasured during the	18,44,670	67,20/194	3,16,922	2,57,084	-11,108	a,23,79h		
feduri-Delicits and write-			***			A.L.		
dild-Communing balance	45,78,538	26,32,266	1,49,888	1.28,036	5,05,305	3,78,097		
200.44								
Total Mids.	,11,41,412	98,62,631)	4,66,810	4,12,720	7,94,287	8,96,403		
Average cost per mei.	0-3-0-50 (0-4-0	0-4-11-00	0.3.6.79	0-3-3-00	0-8-6:33 (3-0-10-19		
Insue rate	0-4-3	04-3	0-2-0	0.2-6	0.3-3	0.2.3		
Cost of penduction per sul. for the year.	0-4-7-90		0-2-8-82	0-3-278	flu a	0-6-8-61		
Prime cont per mel. for the year	10-1-1-77	0 1-1:28	0-1-0-134	0-1-9-01	(FS-10740		
Difference (overhead	0-3-5-62	0-4-1-26	0-1-2-48	0-1-8-78		-2-10-11		

REVENUE DEPARTMENT.

Salt for the year 1928-29.

	Khow	The state of the s	Ware	link-	Kalaba	yh.	Total.			
	1927-25.	1615-19.	1927-26.	1929-29.	1947-29.	1928-29,	1927-26	1928-29.		
	Ra.	Řa.	Re	Ra-	Ra	No.	Tia.	ķān.		
	1,18,819	1,22,496	21,580	da.e.	1,361	281	16.00,548	10,81,563		
	0.75,007. 51,547	d,68,128 47,176	03,081	92,528 8,187	69,401 6,209	82,911	13,98,518	14.31,880		
	334	71.7	4-6 A	876	EE 平	202	8,40,490	10,10,550		
	1.30,200 1,82,678 63,669 - 3,765	1,27,101 1,14,776 55,753 —20,145	11,752 10,673 9,580 6,116	9,780 10,328 6,076 11,804	3.701 1,031 4,710 0,748	2,700 1,658 5,566 7,186	4,02,652 2,52,100 2,52,011 96,110	4,67,200 2,03,300 2,11,65,0 1,12,013		
	12,08,339	11,15,285	1,63,088	1,40,683	91,842	1,06,984	16.89,062	47,63,527		
						1,08.984	10.00,061	47,63,637		
	Mds.	Rds.	Mds.	Mdn	Mda,	1,06.984 Mda.	36.86,062 Mess.	Mein		
						1,08.984	10.00,061			
	Mds.	Rds.	Mds.	Mdn	Mda,	1,06.984 Mda.	36a. 1,67,32,189 -2,81,784	Mcin. 1,16,70,660		
The second second	Mde. 26,95,776	Meis. 30,86,478	Mds. 5,47,463	Mds. 0,51,716	Mda. 3,38,436	Mda. 4.32,062	360,063 360a. 1,07,32,139	Mein		
	Mde. 26,95,776	Mda. 30.80,478	Mds. 5,47,463	Mdz. 0,01,710	Mcla, 3,38,436	Mda. 4.32,062	360a. 1,07,32,189 -2,81,794 1,04,80,365	Mcin. 1,16,70,660		
	Mds. 26,96,776 2,65,000	Mds. 30,86,678	Mds. 5,47,463 70,000	Mdz. 0,01,710	Mda. 2,38,436 4,019	Mda. 4.32,062	360s. 1,07,32,189 -2,81,794 1,04,50,365 39,92,838	Mdn. 1,16,70,660 34,40,299		
	Mds. 26,96,776 2,65,000	Mds. 30,86,678	Mds. 5,47,463 70,000	Mdz. 0,01,710	Mda. 2,38,436 4,019	Mda. 4.32,062	360s. 1,07,32,189 -2,81,794 1,04,50,365 39,92,838	Mcia 1,16.70,560 34,45,299 1,51,15,879		
	Mds. 26,95,776 3,85,000 30,80,776	Mds. 30,86,478 3,12,340 23,08,818	Mds. 5,47,463 70,000 0,17,463	Mdz. 0,51,710	Mds. 3,38,438 4,019 3,42,433	Mda. 4,32,062 1,420 4,33,462	360. 1,07,32,159 -2,81,794 1,04,60,365 59,92,838	Mdn. 1,16,70,660 34,40,299		
	36de. 26,96,776 3,85,000 30,80,770	20.50,478 30.50,478 3,12,340 33.68,818	Mde. 5,47,463 70,000 0,17,463	Mds. 0,81,710 0,61,710 0-3-3-45	Mda. 3,38,436 4,019 3,42,435	1,00.984 Mda. 4,32,063 1,420 4,33,462	360a. 1,07,32,139 -2,81,794 1,04,50,365 39,92,838	Mcia 1,16.70,560 34,45,299 1,51,15,879		

0-2-5:50 0-1-5:46 0-1-43 0-1-719 0-0-11-95 0-0-10-53

NORTHERN INDIA SALT REVENUE DEPARTMENT.

88. The Balance Sheet, Abstract Trading and Profit and Loss Account, Consolidated Trading and Profit and Loss account, and Cost sheet of the Northern India Salt Revenue Department for 1928-29 are prefixed.

These commercial accounts are prepared from the books maintained in the office of the Audit Officer, Indian Stores Department who is the audit and account officer for the Northern India Salt Revenue Department. These books are maintained in the ordinary form of Government accounts. The delay in the preparation of these accounts owing to the late closing of the Government books has always detracted to some extent from their usefulness and it was decided with effect from 1928-29 to base the commercial accounts on the March Final figures, i.e., the figures as on 1st August. The adjustments made after that date are not ordinarily of such importance as to invalidate conclusions reached on the basis of the accounts as then made up. The adequacy of the system of commercial accounts in the Northern India Salt Revenue Department is at present under discussion.

The general control of the Northern India Salt Revenue Department is exercised by the Commissioner with a headquarters office in Delhi. It has been decided that only nine-tenths of the receipts and charges relating to the Commissioner and his headquarters office can properly be allocated to the cost of salt. All overhead charges are allocated to the various sources on the basis of the total revenue expenditure at each source. Interest is charged in the cost accounts not only on the value of the fixed capital (buildings, plant and machinery etc.) but also on the working capital (storesbags, etc.) including the value of salt stocks.

- 89. The salt sources fall into two geographical groups (1) the Rapputana sources and (2) the Salt Range sources; in the former salt is manufactured by the evaporation process, in the latter salt is extracted by mining or quarrying. The actual sources are Sambhar, Didwana and Pachbadra in the former case and Khewra, Warcha and Kalabagh in the latter,
- 90. The working results of the manufacturing branch for the year 1928-29 disclosed a net less of Rs. 3,58,006 on the whole (vide Consolidated Trading and Profit and Loss Account) as against the loss of Rs. 3,60,904 in 1927-28. The results at the several sources during the two years are compared below ;—

				1029-29.		1427-28.				
8	Sour	DEN.		Lon	Profit.	Lees.	Profit.			
Samblar Didwana Pachbadra Khowea Wareha Kalabagh	****	*****	201100	76,762 10,659 69,113 2,11,200	19,972	13,677 1,06,740 4,78,875 10,558	5,761			
		Tota i	Ka	3.77,078	10,072	6,12,456	2.61,668			
	Hal	Loss	Ba	3,08,000	**	5,60,904	.,			

In the year 1926-27 there was a net less of Rs. 3,50,841 made up of a profit of Rs. 1,06,807 in the Sambhar Lake Division (Sambhar and Didwana sources), and losses of Rs. 1,32,163 in the Puchbadra circle and of Rs. 3,25,485 in the Salt Range Division (Khewra, Warcha and Kalabagh sources).

91. If the credit under the heads 'Interest on the balance of depreciation fund' and other miscellaneous receipts' of Rs. 50,276 and Rs. 1,98,553 respectively for the year 1928-29, as well those of Rs. 35,875 and Rs. 2,58,353 for the year 1927-28 be excluded, the net loss increases to Rs. 6,06,836 during 1928-29 and Rs. 6,55,132 during 1927-28. The following table compares the figures of profit or loss at the individual sources for the two years after excluding the items referred to above :—

			1017-28.			
Ē	Sourc	tel.		Profit.	Logs	Loss
Samblest Thirlwans Pachbodta Khewta Warcha Kalabash	10 E 1 2 1 .	· · · ·		17,320	2,76,274 10,282 76,258 2,49,161 12,089	22,987 14,969 1,05,677 4,89,813 6,158 16,428
-		Total	5-	17,459	0,24,105 6,06,836	6,55,132 6,55,132

\$2. The results of the activities of the years 1928-29 and 1927-26 analysed under manufacturing and other operations, after excluding the net credits under the heads 'Interest on the balance of depreciation fund ' and 'Other miscellaneous receipts', are as below:—

		1028-20.		1097-28				
Salt.—Net Loss Bags—Net Profit Despatch—Net Profit Gypsom—Net Profit		8,37,008 12,811 2,12,105 3,250	Not Loss	-		9,46,772 9,387 1,90,708 1,969		

The details of these results by sources are furnished in the following tables :-

				SALT		
				1028-20		1927-28.
8	Sources	goli.		Profit	Lone	Louis.
Sambhar Didwana Pachludra Khewra Wareha Kalabash			 -	1,878	4,68,060 10,282 82,841 3,25,673	1,85,726 14,060 1,00,465 0,01,334 20,750 16,428
Titles a ver gan E of		Total	J.	1,878	8,38,076 8,37,098	8,44,773 8,44,779

			HAGS.				
Sound.			1928	- 如前。	1927-28.		
A DATA BEAT			Profit.	Lesson,	frods.	Lon.	
Santhar Packhadra Klowca		1	13.776	3.	1,071	21	
Not E	jold or Low		13,776 12,811	965	1,031	3,408 2,337	
			DESTATO	e-Paover.	Green	PROFIT.	
Sources.			1028-20.	1027-28	1926-19.	1097-39.	
Sainbhar Paibhadta Khewta Wareha		7	1,32,678 0,886 59,480 16,461	1,01,068 860 13,630 14,502	1,256	1,200	
N	et Profit Ra.	-	2,14,193	1,00,708	7,200	1.260	

93. Sanctioned selling rates are compared with the corresponding average and actual costs of production of salt per maund at each source during the years 1928-29 and 1927-28 in the table given below:

Surviva Santismed colling price of salt per mand. S								1.3	44-							
Sambhar . Re. 0 4 3 0 4 11-98 0 5 2-49 -0 0 8-98 -0 0 11-19	Busine	esi	ing pri	oo al'	of a mean ing	ali do upo	par polant- ming	of por of a	f production of salt per			between nelling price and average cont—Selling price more inlling price			between selling price and actual nost—Selling price more selling price	
	Sambhar	. 1	le. o	4 3	. 0	4	11-06	0	ā	2.45	()	0	8-114	-00	11-00	
Didwars (a) (b) (c) (c) (c) (d) (d) (d) (d) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Paul bades	(e) -	1 0	1 1	0	-	10-19	0		8/61	_p	1 1 1	11:00 7:10	-0 0 -0 E	8-76 S	
Khowra . 0 3 6 0 5 3:56 0 5 2:30 -0 1 9:38 -0 1 8:38 Wareha . 0 3 6 0 3 5:46 0 3 5:45 +0 0 0:55 +0 0 0:58			-	1077		1400	THE RESERVE		2	-	~	0	100,000	- 1		
Kalahagh . 0 3 6 6 3 11/39 6 3 11/57 -0 6 5/30 -0 6 5/32	Kalabagh	. 038									_0	0	0.30			

(c) Salling price raised to Re. 0-2-5 with offest from 27th May 1028.

1927-28.

Sources.			e of r	Average vost of salt per masurel instell ing opening balance Actual of salt manu					on and average t cont-Silling				Difference between silting price and estual root—Selling price more— aulting price law—.		
	Flori.	(0)	4 0	1						c 0	0	0.30	-0.0	7-20%	
Som blace			500	\$ (A) (I	4	3-60	0	4	7-20		-	1000	- 77	-	
		0	4 3	1						(-0	0	8.重白	-00	1-100	
Didwina			2 0	10	3	0.79	6	2	8-52		1	群 智能	-0 0		
		1	3 0)					1	(-0	5	5-72		0.0	
Pachlady.	d			(4)0	8	4:33	ip) that	rucko	illa i						
13000		.0	3 1	1			Luis I.		-	[-0	8	213		é e	
Kinwa			9 6	0	0	3-30		0	5-59	()	13	POP	-0 2		
Waroha .		0	N 44	0	4	5.40	OF .	4	1-2四	-0	0	8.40	-0 0	7-28	
Kalabagh		- 0	4	T Ch	0	4	3 32	-0	0	Dial	-01	441			
(%) Se	lling pri		isad :	with effect from 7th			tin Ju	94	027.						

It is apparent that except in the case of Warela both the average cost and the actual cost of production of salt during the year 1928-29 were considerably higher than the sanctioned selling rates fixed for all the sources.

The Government of India have however further raised the selling prices per mained of salt exclusive of Dispatch charges as below with offset from 1st July 1929;—

*										- 1	TO LUI	173		1	, notice
Salt Range	2	00							-	0			9.		
Sambbar			,	- 2	-	a.	-	-	-			1	- 100		0
Pachbidea		-	4	P	iti	0.1	- B	8"	1911		-	3			0
Third Waterook	0.	100		-	b -	-81	- 6		4	131	100	like.	0	100	-

The new prices fixed take into account not only the cost of production at each source but also the need for maintaining more or less constant zones of consumption. With the new rates Government expect to recover the cost of production taking the Northern India sources and Khargoda together.

94. Except in the cases of Sambhar and Didwana, however, the manufacturing costs at all sources showed a fendency to fall during 1028-29. The figures of output of salt together with the prime cost, overhead cost and total cost per maund at the various salt sources for the year 1927-28 and 1928-29 are furnished in the table below:—

			19:28-29.											
Source.		Ompot mangala.	Ī		no issued par incept.		rband 6 per sund		Cont of production per manya					
				B	ine		Hu			H	£.			
Sambhas Didwana Pachbadra Khewra Warcha Kalabagh		67,20,424 2,67,064 8,22,796 80,66,478 0,81,716 4,32,062	0 0	II STEEL	1-22 9-61 10-40 8-90 2-20 0-84	0 0	1	1-20 5-75 10-11 8-46 2:10 10-68	0 0 0	8 8 8 8 8	11.27 5.21 5.21 5.40 5.40			
						ingi-	133							
Sambhar . Didwana .	:	68,44,670 3,16,923 —11,109	0	1	1.77	0 0	1	3-15 3-32	0	4 9	7-29 8-52			
Panhhadra Khewra Wareha Kalabagh	 	26,05,776 8,47,463 3,36,430	0 0	00 Hg th.	0-00 8-85 2-27	0 0	1 0	11-0E 4-43 0-80	0 0	0 4	9-76 1-28 3-45			

The increase in the cost of production at Sambhar occurred mainly under the heads—royalties and compensation, interest on capital and net expenditure on stores and workshop establishment. At Didwana there was only a small reduction in manufacturing charges despite a considerable fall in the amount of salt produced. There was no manufacture at Pachbadra during 1927-28 and no comparison of the costs is possible. The output of salt at Khewra, Wareha and Kalabagh increased by 3,60,702, 1,04,253 and 93,626 manuda respectively during the year 1928-29 while the charges incurred under most of the sub-heads of expenditure were actually lower than those of the previous year.

95. As a result of the excess of costs over selling price the manufacture of salt during 1928-29, apart altogether from bag and despatch operations

resulted in a total loss of Rs. 8,37,098 as against a loss of Rs. 8,44,772 in 1927-28. Of this loss of Rs. 8,37,098 the share of the Rajputana Salt Sources Division was Rs. 5,01,213 and that of the Salt Range Division was Rs. 3,35,885. During 1927-28 the losses of the two ranges amounted to Rs. 3,06,260 and Rs. 5,38,512 respectively. The following table compares the losses at the several sources during the years 1928-29 and 1927-28;—

								1928-39. Ra.	1917-38. Ra.
Sambhar .		-	-	- 1	7.0	18		4,08,060	1,85,726
Didwank		-	14		- 2		-	10,282	14,069
Panhbadra			-			14		82,841	1.00,465
Khewra			- 3			14		3,25,673	6.01,334
Waruha (Profit				-01	- 2	- 15		-1.878	20,750
Kalabagh .	,	-	100		- 6			1 ',090	16,428
Total Sail	Range	Divis	icha					3,35,886	3,38,512
Grand Tot	al							8,37,098	8.44,772

96. The value of the stock of salt on 31st March 1929 amounted to Rs. 7,15,907. Except at Warcha the quantities of salt in stock at the several sources have been valued at the celling prices ruling at the sources as the average cost of production is higher than the selling price in each case. Since the average cost price at Warcha during 1928-29 was below the selling price ruling there, the stock of salt at that source has been valued at the average cost of production. During the year 1928-29 no deficit in the stock of salt is reported to have been discovered. A shortage of about 2,81,794 maunds of salt was reported during 1927-28 but the Commissioner informed the Central Board of Revenue that the figure of 2,81,794 a given by the Audit Officer was not based on the result of actual clearances, because all the old stock in respect of which there was no separate account had not been cleared by the end of 1927-28 and that the real deficit amounted to about 1,50,582 maunds only. Sanction to writing off this amount was accorded by the Central Board of Revenue.

97. A comparative statement showing the cost prices and the issue rates of bags and the profit or loss thereon at the sources concerned during the years 1927-28 and 1928-29 is set out below :—

				1928-29.										
	Soun	Min.			nd jerk	5 0 2		or b	cout ag.	Profit or Logs.				
					Rs.			R		Pa				
Sambhar	1	*			g bekw 1 to 44 90 bag	1-8	(0	9-62	-963				
Pachbadra	4			.,	0 8	6	5) B	9-91	-3				
Khewra	-	*	21	-{	0 8	6	} '	8	7-77	13,776				
							192	7-29						
Sambhar Pachbadra		:	4		0 9 0 8 0 9	6 8 3		7 8	6·43 8·60	1.071 —21				
Khewra				-}	0 10		1	9	7.68	-3,387				

There were no transactions in bags at the three sources—Didwana Warcha and Kalabagh. The profit of Rs. 13,776 at Khewra was due to the bags having been sold at Rc. 0-10-0 each for about eight months of the year against the average cost price of Rc. 0-8-7-77. At Sambhur the sale price per bag works out to a fraction less than the average cost resulting in a small loss. The selling price of bags at Khewra was reduced from 10 annus to 8 annua 6 pies per bag with affect from 20th November 1928.

98. The despatch charges account disclosed a profit of Rs. 2.14,195 during 1928-29 as against Rs. 1,90,708 during the previous year. A comparative table showing the sanctioned rate of recovery and the actual rate worked out on the basis of the figures incorporated in the accounts for the years 1927-28 and 1928-29 is furnished below:—

	1926	120.	1927-18					
Source	Santtlened rate of recovery per maund of mit.	Actual cost per mauni of salt.	Samuloned to of moovery per maun! of salt.	Autical cost per massed of solt.				
	Ra	N.	Rec	Ra.				
Bambhar Pachbadra Khewra Wascha	. 0 0 6 . 0 0 6 . 0 0 6	0 0 244 0 0 046 0 0 231 0 0 140	0 0 6	0 0 331 0 0 849 0 0 505 0 0 144				

The profit shows under this account is more apparent than real in view of the fact that the indirect charges relating to "Dispatch" are not charged to this account, but to the relevant heads of accounts under "Manufacture". The necessity for a change of classification in this respect has been brought to the notice of the Audit Officer, Indian Stores Department, and he is taking action on the suggestion.

- 99. The total quantity of gypsum excavated during the year 1928-29 amounted to 7,425 tons 16 cwts. The total charges both direct or indirect incurred on excavation amounted to Rs. 12,664. The quantity cleared during the year 1928-29 was 7,277 tons 9 cwts. The department does not hold any stock of gypsum and the difference between the quantities excavated and cleared amounting to 148 tons 7 cwts, was shown as less. Against this loss the value of 76 tons 17 cwts, has been recovered from a contractor in 1929-30 and the balance of 71 tons 10 cwts valued at Rs. 93 has been treated as a final loss to Government. The sale of gypsum during the year 1928-29 realized Rs. 17,187 including Rs. 1,312 relating to the previous year. The debtors at the end of the year owed Rs. 44 and the net profit on this account was Rs. 3,256 as against Rs. 1,269 in 1927-28.
- 100. The stock of general stores at Khewm, Warcha and Sambhar is verified by the departmental authorities at the end of the year and valued at the average cost. A discrepancy list is submitted by the departmental authorities to the Audit Officer, Indian Stores Department, so that the necessary adjustments may be carried out under the sanction of competent authority. It was noticed that there was a credit balance of Es. 5,984 under general stores at Warcha. This has been explained as due to a transfer of stores to Warcha the value of which had not been taken on to the books. The position is now being regularised. The Auditor General recom-

mended that general stores should be verified by actual count or weighment and valued at cost or market price whichever is the lower on the last day of the trading period. The Central Board of Revenue, after some discussion, have finally come to the conclusion that the present method of fixing the issue rate on the average cost which includes incidental expenses may stand. They have further remarked that as the issue rate is so regulated that there is no eventual loss or gain there does not appear to be any need to put divisional officers to the trouble of ascertaining market rates at the close of a trading period to work out the values of stores.

101, A not profit of Rs. 82,268 is shown on Stores, Workshops and Electric Power House establishment and is composed of the following:—

,	Profit .				:	Ra. 92,906 L307
						94.213
	Long	*	•		٠	11,945 82,388
		. Do	. Do	. Do. ,	. Do	. Do

The loss at Sambhar is due to the fact that the recoveries for electric energy supplied to private parties have been credited to miscellaneous receipts instead of being accounted for as deductions from charges as was done in the past. While this allocation follows the rules of classification in Government accounts it probably vitiates to some slight extent the accuracy of the cost accounts and is being further considered. In Khewra the total expenditure during 1928-29 under general workshops amounted to Ra. 59,120 while the value of outturn debitable to other branches and parties and credited to General Workshops Account amounted to Ra. 69,125 and there was thus a net credit of Rs. 9,705. The corresponding profit for 1927-28 was Rs. 1,005.

102. The net sum credited during 1928-29 on account of miscellaneous receipts amounted to Rs. 1,98,552 the corresponding figures for the years 1927-28 and 1926-27 being Rs. 2,58,353 and 50,365, respectively. The most important individual item is the sum of Rs. 1,23,757 received from the B. B. & C. I. Railway as terminal charges for the use of the departmental sidings at Sambhar, Gudha, etc. The corresponding figure for last year was Rs. 2,18,987.

OPIUM DEPARTMENT.

The state of the s	An at 30-9-23.	13,081	1001	1,40,475	00,607	92,761	1,544	07,800	81,140	1,50,000	8,00,41,679	2,67,481	00875	184. 4.61,58,287 Sd.) A. RENGASWAMI IYER, Asstr. Director of Commercial Audit, Calcutta Circle.
	As at 30-0-27.	- 101.80		1					60,284	1.59.000	8,00,01,047	10,10,10,10,10,10,10,10,10,10,10,10,10,1	0.000	A. RENGAS Director of C
2	. E.	1	1 10,40,487	28,0	1000		001.41	194,761	12,457	41.	3	36		Postal Re. (Sd.) Assetts.
103. Balance Sheet he at Mula Sepremoer 1920	Assets	Less disposals du-	Bulletings (original value,	- NOW	Joseph Lindson, Chapmedation	Plant and Manhinery.	Add Adjustment		willem off	Furniture and Fit-	Stook on band : Fair Opidus att. Fair Store Account	Sundey Debton	3.23.28,370 Permanent Advance	(S4.) A. P. COLLET, Opium Agent.
Schoot No				10.2									3.29.29.37	92
S. Balance	As at 30-9-1029.	100.00	II.Res	0.00 60 10 0	The state of the s	1,73,40,74	1,34,88,464	4,97,00.642	3,60,65,800	1,00,16,249	29,10,130 24,279	107.08	1.06.791248	Ghazipur
27	.1991.												4,50,03,003	4,01,70,257 5, ent, at's Office,
	As a. 30-9-1927.		12.505	5,24,123		120,00,00	*	5,81,80,953		0.01,38,410	10.12	96,240	1,08,98.719	(Sd.) V. G. HARDIE, Superintendent, Section, Opium Agent's
	Labilities.	ich i	Contractors for Chasts. Reduid to Ametica	Refund to Local	Agentals Agutal E, on Action Adjustments during	the year for la- invest. Profile, etc.	Cach withdrawale	And adjustment.			Indirect obserges the the post :	Accounts.	Profits for the year.	(Sd.) V. G. HARDIE, Superintendent, Costing Section, Opsium Agent's Office, Ghazipur.

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OPIUM DEPARTMENT.

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Expansion 1927 included the transactions of the contract of the change in the date of the commencement of the costing year.

† Define Iven the closing belances of the provious year due to correction subsequently made.

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OPIUM DEPARTMENT - contd

105. Statement abowing the Output and Production costs of Important Products for three years.

	NESTRE.		4. 11	8 (a) Exclusion malking chargen.		6 197-46 6,000-0-0	Of Sales pands to local Covers.	1 (6) Average with prince ob-		With offer bon		2 (c) High mix den to a special a schooling procedum which	Non-vento consequence of the state of the st
		Output Hein.		or mariful car's	000000000000000000000000000000000000000	11 250 (4)1,082 11	==	0,0041 010 E	3		3,700 5,250 8,386 8,386	26,7855 St 25, 25, 25, 25, 25, 25, 25, 25, 25, 25,	6,898 0 10 7,724 0 6 2,00,000 0 0
1828-93	1-11-20 to 30.0-27-11 miles	Output. Bate.	2	7,000 1,618 2 .0	5 7 55 ONE ONE			10,747 498 4 6 7,468 120 14 3		#,480 # 2 # 2 # #70 II # 2 #	2,490 8 10 1 2,444 8 15 8 883 0 12 1	4,000 2 14 4 2,861 8 2 2 35 (c)55 0 11	17,650 0 7 9 5 21,875 0 2 5 10,000 0 0 0 6%
182-26,	1-11-9	Hall. Out	A. D.			9 5 (A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	18	* # # * # # * * *	302 404	100 to	000 000 000
118	*	the last.		Fact County	Manyale ortho		the confliction and the co	Manada 12,203	74	Ex.15 2,250	288.7	371.5 371.5 3006	14,281 6,488 2,80,000
	Product			Providen Opinia Calicia	Perr Bearing Extiles Oplian	Ī	Comple	Raw Opnin, Bennies		Track Provision Names	Charte - 5 pty Provident Option (ingesentially) . Dieto (assembled) . Achart Heam Christo	200	Cope Cope

OPIUM DEPARTMENT.

106. Stook account for the Opium Year 1927-28.

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	ine.	3	48,764 2	59,440 11	1.07.204 13	97,469.13	IT.462 18	38,416 10
Alkaloidn	Value	Ra	489	25	1.07.5	97,	m.	80
7	Quantity.		-		:			
	0	2	193	10	9	3	0	5
d	0.00		8	***	3	3	1 =	81,107 G
Benaros-Mabra. Bendad.	. Value.	Ha.	12,63,230 12	53,56,124 3	66,41.3	70,54,3	7,487 70,84,311 0	81.1
Ben	Oundity.	Ra. a. Mde.	1,662	8,073	6,00,770 4 7,525 86,41,344 15	0 118,45,0 7,487 70,54,311	7,487	88
		À	9	45	*	0	0	2
Pure Benares.	Value.	Ra	4,70,677 18	1.26,201 5	6,06,779	8,29,790	0 027,22,8 000	2,77,236 14
-m-	Value. Chambiby.	8. M.dn.	513	100	110	330	382	285
4		40	9	*	=	0	C	01
Providin optun.		RA	1,71,41,21	3,030 63,70,528	,25,11,846	7.208 2.90,72,000 0	90,72,000	23,78,901
Pyton	Quantity.	A. Chesta.	21 012,11,117,1 4028 91	3,000	16,8804 9	2.208	7.288 2	8,5562} 1
		AS.	40	20	9	27 24 22	10	=
Raw oplim.	Value.	F.	32,407 1,94,14,394 8	10,403 50,87,853 B	42,400 2,46,73,249 to 16,8904,3,25,11,846 ti	80,62,630 3	14,829 88,21,045 1A 7,568 2,90,75,040 0	28,678 1,64,60,683 11 8,5624 1,29,78,801 12
and a	Quantity.	Mds.	32,497	10,403	12,900 2	14,040	4,829	8,678 1,
	9		191			5 .		123
4			•	and and a	Total	3.1	Total	slance
Particulars			sering balance	corinta from all acurosa		me of all kinds .		Cleating balance
			perain	portpt		ne of		

OPIUM DEPARTMENT-contd.

106. Stock account for the Opium Year 1827-28-contd.

	N. III	2		NEDI	CAL O	NO.	MEDICAL OPIUN FOR INDIA.	•		(a)	(a)	Daniel Land	7
	Nettler	Medical opinio O. R.		Cale			Powder			Milecula		December	4
	Quantily.	Value	a C	Quantity.	Value.	m _Q	Quantities.	Value.	Om O	Quantity.	Value.		
	lbe.	Ba	4	Iba	Re	7	la se	Re.			Ba.	,	
	45,759	4,82,975	9	818	2,846 10	10	92.5	1919		V.	B.28,240	9	
		7,78,703 13		988	9,864		1,746	25,864	-01		4,08,670		-
-	1.87,600	1,37,600 12,37,070 1	_	1,75	17,200 11		3,020	30,018 7	4		12,00,019 13	9	
	1,(3,636	1,(3,636 14,75,236 1		1,489	16,711 1		1,325	28,518		đ q	7,12,783		
		1		1	-		r.	12		14	3,089 10	10	m
2.00	1,08,696	1,08,686 14,75,296 1		1,482	10,711 1	-	1,323	25,516			7,18,326 13	03	
	20,030	20,030 2,85,528 10	0	273	2,093 11		2,000	10,016 19	61	12	5,20,564	1	

W. GASKELI, Opium Agent.

A. RENGASWAMI IYER,
Assistant Director of Commercial Audit,
Culcutta Circle,

(a) Includes following classes of stores :Inferior option, contraband option, date, task, caps, chests and compartments.

- 107. Opium Department, The main operations of the Opium Department and the Opium Factory, Chazipur, are the examination and collection of raw "Benares opium" from cultivators in the United Provinces, and the examination and receipt of "Malwa" opium from the Indian States of Gwalior, Rajputana and Central India: the manufacture of Provision and Abkari opium; and the manufacture of special Medical opium for the United Kingdom, and Indian Medical opium in the form of cake and powder. In the laboratory attached to the Factory, which is mainly engaged in testing the samples of raw and manufactured opium, the several alkaloids of opium such as the morphine derivatives codeine, narcotine, cotamine, etc., are also manufactured, from sime to time according to requirements, out of contraband and inferior opium received in the Factory. The manufacture of crude morphine has been stopped since March 1928. For the purpose of packing opium in its various forms the department undertakes also certain subsidiary operations such as the collection of leaf and trash, the manufacture of lews, dhoi and chests, and the purchase of cups, etc.
- 108. The opium thus manufactured in the Factory is disposed of by Government in the following ways:—
 - (a) Provision opium.—By direct sales to Foreign and Colonial Governments (vis., the Straits Settlements, Hongkong, the Netherlands Indies, Siam, British North Borneo, Sarawak, French Indo-China and Ceylon), with which agreements have been entered into for supply at certain fixed rates.
 - (b) Excise opium (Pure Benarcs and Blended).—By issue to the Excise Department in India and Burma, for local consumption under revenue regulations.
 - (c) Special Medical opium.—By export to the United Kingdom for sale to chemists.
 - (d) Indian Medical opium, cake and powder—By supply to Army and Railway departments, Indian States and private chemical firms in India.
- 109. Provision opium.—Provision opium is manufactured from Pure Benares opium and is exported to foreign and colonial Governments under special contracts. It is understood that the manufacture and export of this class of opium will cease by the end of 1935. The profits accruing from the cale of this opium are credited to the Central Revenues.
 - 110. Revise opium. This consists of two classes :-
 - 1. Pure Benares Excise opium manufactured from Benares Raw epium,
 - Blended Excise opium manufactured by blending in certain definite proportions Benares Raw opium with Malwa opium, which contains a mixture of oil.

Pure Benares Excise opium is supplied to the Burma Government and Blended Excise opium to all other Governments in India and to Indian States. Excise opium is sold by the various Governments for consumption by the public, subject to the revenue regulations of each province. Under the existing financial arrangements, between the Government of India and the local Governments, the Government of India are under an obligation to sell the

Excise opium to local Governments at its cost price. The profits arising from the sale of Excise opium to consumers in India form part of the Excise revenue of Provincial Governments. The Government of India have ordered that the issue rate to be charged to local Governments for Excise opium during a financial year should be fixed and communicated to them by the Opium Agent not later than Docember of the previous year, the issue rate to be calculated on the basis of the actual cost of production for the previous opium year ending 30th September.

- 111. Special Medical opium.—Special Medical opium is manufactured for medical purposes in the United Kingdom from fresh Raw Benares opium of high morphine content. This medical opium is sold at the prevailing market rates in England and the profit accrues to the Central Government.
- 112. Indian Medical opium, cake and powder.—These products are manufactured from Benares raw opium for local use by doctors in India. The Government of India have recently decided that Indian Medical opium should be sold to medical firms in India at its cost price, the rates being fixed with reference to the average cost of production over a term of years.
- 113. To enable the Opium Agent to fix the issue price of Exrise opium to local Governments annually on the basis of its actual cost price, to regulate the selling prices of the other products, and to secure the exercise of adequate financial control on production efficiency generally, a costing scheme approved by the Government of India has been introduced into the Opium Department with effect from 1st November 1925. Balance Sheet and Profit and Loss accounts are also compiled on the basis of the costing records. These accounts bring out the financial results of the working of the Opium Department as a whole, the production cost of the important products manufactured in the factory, and the profit or loss accounts on the sales of different classes of opium and alkaloids.
 - 114. The following summarised accounts are prefixed :-
 - (a) Consolidated Profit and Loss account showing the comparative figures of two costing years, viz. those anding 30th September 1927 and 30th September 1928.
 - (b) The Balance Sheet showing the balances as at 30th September 1927 and 30th September 1928.
 - (e) Statement showing the output and production costs of important products for 3 years.
 - (d) Stores account for the opium year 1927-28.
 - 115. The following are the more important special features in connection with these accounts:—
 - (a) The accounts are compiled for the cost year from 1st October to 30th September which is the same as the opium year. The cost year compassed the period from 1st November to 31st October until 1926, when it was changed to 1st October to 30th September; and consequently the accounts of the transitional year 1926-27 included the transactions of 11 months only. As opium is initially a natural product, the production processes depend on seasons and cannot be made to fit into an official illumicial year. The opium year just

described has been found by experience to be the most suitable accounting period for purposes of cost accounts.

- (b) Benarce Raw opium.—Benares Raw opium is collected by District opium officers. Therefore, the District charges are included in the cost of the Benares Raw opium, a certain proportion being allocated between leaf and trash wherever this is necessary.
- (c) The amount payable to the Indian States for crude Malwa opinm received in the factory during the costing year as worked out in the Factory challans, has been included in the cost accounts and no liabilities on this account have been shown in the Balance Sheet. Arrangements have been made for the payment of the cost of Malwa opium due to Indian States direct by the Central Pay and Accounts Officer, Allababad, with effect from 1928-29, and the transactions will be automatically included in the accounts in future.
- (d) All the receipts and charges relating to opium in India are adjusted in the books of the Central Pay and Accounts Officer, Allahabad. Payments in England for leave salary and deputation and overseas allowances and stores are however adjusted in the books of the High Commissioner. These accounts include the transactions occurring both in England and India.
- (e) Malwa Opium.—There are four different classes of Malwa Opium A to D which contain varying percentages of oil and are consequently paid for at different rates. By means of suitable factors, the different classes A to D are reduced and expressed in terms of the Opium equivalent of A at a consistency of 70° in these accounts.
- (f) Alkaloids.—The manufacture of alkaloids is undertaken in the Laboratory during spare time only, incidentally and not on a regular commercial scale. Contraband or Inferior opium is used for the purpose. It has been decided that no separate costing statistics need be compiled in the case of these products. The profit or less accounts on the sale of alkaloids as a whole is however brought out in these accounts.
- (g) General Charges.—Ordinarily, general charges are allocated to the various products on the basis of the weight of outturn, and in the case of alkaloids, the weight of opium which is consumed in their manufacture.
- (h) Interest Charges.—Interest charges are calculated on the opening balance of the capital debt due to the Government of India by the department as shown in the Balance Sheets, at the rates of interest prescribed for commercial undertakings generally. The allocation to the various products and departments in the Factory is made, as far as possible, with reference to the purpose of which the various classes of assets are maintained, in accordance with the procedure sanctioned by the Government of India.
- (i) In the case of Crude and Manufactured opium and other products, the valuation of the closing balances as worked out in the cost aheets has been taken in the Balance Sheets, while in the case of alkaloids for which no detailed costing accounts are maintained, the valuation has been made at 50°/o of the sanctioned selling prices in accordance with the orders of the Government of India.
- 116. Balance Sheet.—The capital invested by the Government of India in the Opium Department, as at 30th September 1928, amounted to

Rs. 1,24,49,121-4-0. This includes a sum of Rs. 24,33,873 on account of charges for interest, cost of audit and accounts, pensionary liabilities, etc., due to Government during the year under review. The net profit realised during the year amounted to Rs. 1,98,79,248. Including this profit, the aggregate sum due to the Government of India by the Opium Department on 30th September 1928 amounted to Rs. 3,23,28,369-4-0 against the corresponding figure of Rs. 4,56,03,662-12-5 outstanding at the end of the last year. The fixed assets amounted to Rs. 16,54,329-4-0. The decrease of Rs. 1,55,388 under this head, as compared with the corresponding figure shown in the accounts of the last year, represents mainly the allowances for depreciation written-off, and the value of the assets disposed of during the year. The floating assets amounted to Rs. 3,01,48,355-12-0. decrease of Rs. 90,79,343 under this head as compared with the corresponding amount of last year, occurred mainly under Provision opium, and Raw opium, Benares and Malwa, classes which account for a reduction of about Rs. 16 lakhs and Rs. 19 lakhs respectively. The bulk of the floating assets consisted of Provision opium valued at about Rs. 123 lakhs, and Crude opining, Benares and Malwa, valued at about Rs. 164 lakks taken together.

117. Under "Lands", the sum of Rs. 13,091 shown as deduction during the year, represents the value of the land occupied by the buildings disposed of during the year by sale or by transfer to other Government departments because of the abolition of certain districts and sub-divisions consequent on the curtailment of the export of opium. The net book-value of lands and buildings disposed of during the year amounted to Rs. 1,42,752. The sale-proceeds realised including the value of buildings, etc., transferred to the Income-tax Department amounted to Rs. 1,07,554-14-0, resulting in a capital toss of Rs. 35,197-2-0.

118. The value of sundry stores on hand as at 30th September 1928, has been taken as Rs. 1,06,677-5-0. The issue rates of the several articles were adjusted and ravised, wherever necessary, during April to June 1928, with reference as far as possible to the then market rates. The valuation taken in the Balance Sheet has been arrived at on the basis of the issue rates so fixed in the case of the balances on hand in April 1928, and on the figures available in the Store Control accounts as regards subsequent transactions. The following table will show the progressive reduction made in the value of sundry stores held in the Factory since the introduction of the cost accounts:—

Rala	aradad 4	ochu h	IN OIL							Ampor	in/s	
										Ra.		D.
1st November 1926	P	#			-	ī	ů.		- 7	2,14,341	0	0
Let October 1927			- 2	-	*	17			-	1,35,752	0	U
List October 1998	v	2						4		1,00,077	Ū	0

It was noticed that a thorough over-hauling of sundry stores was undertaken under the orders of the Opium Agent, and that action was taken to write-off all surplus and unserviceable stores.

119. The Balance Sheet as at 30th September 1927 showed heavy outstandings under "Sandry Debtors", e. g., Rs. 29,01,000, in respect of the sale of Provision opium and Rs. 15,54,294 in respect of the issues of

Excise opium—Blended. These amounts were shown as outstanding as information regarding their adjustment by the Pay and Accounts Officer, Allahabad, was not received before the date of closing the accounts. Necessary information has now been received and the amounts adjusted. There were no such outstandings shown in the Balance Sheet as at 30th September 1928, except small amounts relating to sales of Indian Medical Opium, calce and powder, and allealoids.

120. Sundry Creditors.—The sum of Rs. 12,505 shows in the Balance Sheet represents a portion of the proceeds relating to the sale of Provision opium, and has since been adjusted.

121. Profit and Loss Account. The net profit of the year amounts to Rs. 1.98,79,248 as against the sum of Rs. 1.69.93,718-8 of the previous year. Out of this, Provision opium accounts for Rs. 1.89,39,050-12, while Blended Excise opium and Special Medical opium contributed Rs. 4.94,074 and Rs. 4.44,127-2 respectively. The increase in the profit is mainly due to the larger number of Provision opium chests sold during the year, 7,268 as against 6,651.

The following statement shows the profit or loss of the year under review for each class of opium, as compared with the corresponding figures of the previous years;—

Particulare.	Your ended	\$1-10-26. T	Tear embed 30)-9-97.	Year ended 30-0-28.
and the latest terminal termin	Profit.	Loon	Profit.	Lave	Profit. Lames,
	Ra	Rn.	-Ra.	Rs	fts. Rs.
Province Opium . Rivelue Opium Pare	1.96.96,712		1,67,88,104	24	1,89,30,057
Special Mecheal Optum— British	16,833	9.46,410	1.28,843 49,131		4.04,074
fuilita Medical Opnum-	1 de	1,558	- 1	723	state!
Indian Medical Opium— Calca		1,102	1,213		2,504
Alkalulda	1,65.579	11	702		28,876

122. Provision Opium.—(a) The following statement compares the production cost and the selling prices obtained during the year, with those of the previous years:—

	Зописия	٠			Produc cosk	[301B		solling prices
					Else.	à.	8.	
1925					1,502	13	87	Ba. 4.008-13 per
1927 (Meren month 1928	n)		* * * * * * * * * * * * * * * * * * * *	-	 1,382	8	1)	average. Ra. 4.000 per almit.

The increase in the production cost is mainly due to smaller output, to an increase in the issue rate of Benares Raw opium, and interest charges.

(b) The cutput of this class of opinm for the year under review and the previous years, is given in the following table. The progressive decrease in the output is due to the policy of Government to close the manufacture of this opium by 1935.

		Year.				6	insput of Pro	vlaton epinen.
		All all states in					Cales.	Cheste.
10:5-26						٠,	279,000	10,749
1924-27		a A	i.	.al.	4		200,000	7,000
1007-SA	-	+ 10		2.4		4	1.00,000	4.760

- 123. Pure Renarce Excise opium.—(a) The cost of production during the year amounted to Rs. 25-3-8 per seez, as against Rs. 25-4-2 in the previous year.
- (b) The output of this class of opium for the year under review, and the previous years, is given in the following table:—

Your													Quantity
													Malu.
1925-50	41	10	511	-				-	i.	-		1	498
有的杂印·湖 A			- 4	100			-	1		7	-	10-	84048
1927-2A	-			- 2	1	-	-	- 1	9.	-	1		384

Manufacture was carried from opening balances of the unfinished products already in the department. There has, therefore, been no material change in the production rates of the two years. The surplus stocks of unfinished stuff in this department were worked off during the year, with the result that there was a substantial decrease of Rs. 4,24,798-13 in the value of the closing balance now consists of 137 mds. valued at Rs. 1,23,861-14, which is not in excess of the normal reserve necessary for this class of opium.

124. Blonded Excise Opium. - (a) The cost of production during the year worked out to Rs. 22-6-10 per seer as against Rs. 23-5-1 per seer of the previous year. In working out these the Raw Malwa opium issued for manufacture has been priced, with the approval of the Opium Agent, at the average issue rate of the opium year ended 30th September 1927, etc., of Rs. 565 7-3 per maund at a consistence of 70°, as worked out in the accounts of that year, instead of at Rs. 541 6-7 per maund, which is the average rate at the end of the year under review, since crude Malwa opium received during the season of 1928 was not drawn upon for the manufacture of the year under review. The decrease of Rs. 0-14 3 per seer, notwithstanding the inclusion of 12 months' charges in this year as against the 11 months' charges of the recceding year, is due mainly to the progressive depletion of the old stocks purchased at the higher rates of Rs. 15 and Rs. 13 in the previous years, and to the consequent drop in the valuation of the opening unfinished stocks at the commencement of the year. There has been a considerable decrease (amounting to about Rs. 11 lakhs' in the balances of unfinished stuff held in this department during the year. This indicates careful control by the management to secure that manufacture is not in excess of requirements. The protit shown in this class of opinm is due to the issue rates for a financial year being fixed on the basis of the actual production cost of the preceding costing year, and to the rounding-off of pies.

(b) The output of this class of opium for the year under review and for previous years is shown in the following table :-

Your.	Quantity.
	Mds.
1925-26	7,384
1926-27	7,430
1927-28	7,253

125. Special Medical Opium.—The output, production cost and the average selling prices per chest of Special Medical opium are given below for the last three years including the year under review;—

Year ends	al .			al obests	Production por o			Average selling price per chief.
					Ra	a.	F.	Ra
31st October 1926		ā	-	538	2,380	ñ	4	1,951
30th September 1927			-	443	1,022	12	1	7.593
30th September 1928	-	1	Я	480	1,682	11	6	2,694

The decrease in the production cost is due mainly to the decrease in the average value of the opening stocks, owing to the progressive depletion of earlier stocks purchased at higher rates and to the closer control over the charges involved and their allocation in the accounts in respect of this class of opinm.

126. Indian Medical Opium, Cake and Powder.—The following statement compares the output and production rates of the year under review with those worked out for the preceding years, and the present sanctioned selling prices:—

Indian Medical Opium.

	Year,		Onique.	Production Pound		bni,	Precent sumptioned selling prices.	
				Lalen	No.	Au	P.	
1926-26 1926-27	1	*	C	1,424 906	20 18	6	11	Rs. 20 per lb. for private fram. Rs. 12.8 per lb. for Medical
1027-29			11	1,772	14 1		3	Storkeepen. Re. 15-8 per lla for Indian States and Railways.
1925-28			-	418	Classe.			the same of the sa
1928-27			F		15	2	7	Ra. 19 per lb. for private firms.
1927-28		*		7941	41 1	la	10	Ha 11-8 per th. for Medical Storekeepers.
1841-59	*	7	No.	808	11	0	9	Ra. 18-12 per 1b. for Indian States and Railways.

The average selling prices were thus higher than the production rates and this accounts for the profit of Rs. 5,516 in the case of powder, and Rs. 2,504 in the case of cake.

- 127. Alkaloids.—A profit of Rs. 23,874-10 has accrued during the year, as against Rs. 761-13 in the preceding year. No valuation has been assigned to the manufacture in progress or to the large stock of mare (by-product of morphine) in the laboratory, as it is said to be extremely difficult to assign any reliable values to these items. The increase in the profit is mainly due to the revision in the method of valuing the impure, deteriorated, confiscated and hurnt opium, etc., out of which alkaloids are manufactured. The opening and closing balances have been valued at 50% of the sanctioned selling prices in accordance with the orders of the Government of India on the subject.
- 128. Raw Benares Opium.—The production rate of Benares Raw opium for the year under review amounts to Rs. 510-2-10 per maund of 70° as against Rs. 493-4-8 of last year. 6,961 mds., were purchased during the year under review, as against 10,747 mds during the last year. The increase in the rate is due mainly to the increase in the district charges per maund, owing to the inclusion of 12 months charges as against 11 months of the preceding year, and also to the considerable decrease in the quantity of opium purchased during the season of 1928. The closing balance of Raw Bouares opium at the end of the year amounted to 16,382 mds., as against 17,673 mds., at the beginning of the year.
- 129. Raw Opium Malwa.—The production rate of this class of opium per unit (one maund of class A at a consistence of 70°) works out to Rs. 437-4-1 per maund, as against Rs. 420-14-3 per maund in the preceding year; 3,422 maunds only were purchased during the year, as against 7,658 maunds of the preceding year. The slight increase in the production rate of the year is due to the fact that purchases of hard Malwa opium at lower rates were made during the previous year and that no such purchases were made during the year under review. The closing balance of Raw Malwa opium at the end of the year amounted to 12,196 maunds, as against the opening balance of 14,824 maunds at the beginning of the year.
- 130. General Charges.—The General charges of the year amounted to Rs. 3,32,395-8 as against Rs. 2,99,602-5 (for 11 months) included in the accounts of the last year.
- 131. Interest Charges. The total Interest charges during the year under review amounted to Rs. 23,10,130 as against Rs. 23,52,880 included in the accounts of last year. If the fact that the figures of the preceding year include interest for 11 months only, as against 12 months of this year be taken into account the decrease in the interest charges this year is really more than that indicated by the figures, and is due mainly to the decrease in the value of opium stocks held and to the lower interest rate applicable this year, namely, 5.38% as against 5.43% of the previous year.
- 132. Production rates for other important articles will be found in the statement profixed.

- 133. Opium Stocks.—The shortage of opium as disclosed during stock-taking amounted roughly to about 101 maunds of Raw Benares opium and 130 maunds of crude Malwa opium. The value of these shortages priced at the average issue rates will amount to about Rs. 1,34,114. These losses are due generally to the very great viscosity of opium which adheres to all the recepticles in which it is contained. A loss of Rs. 5,770 occurred on account of rejections of Leaf and Chur, the book-value of which amounted to Rs. 5,042 while the sales fetched only Rs. 172. Leaf is liable to destruction by maggots, and some loss is an inevitable consequence of storing this commodity. The write off of these losses has been sanctioned by the Government of India.
- 134. Sundry Store Accounts.—During the year under review, surplus and unserviceable articles to the value of Rs. 23,305 were written off. There was a balance of unserviceable stores brought forward from the previous year value of about Rs. 23,471. In addition to the above, unserviceable stores to the value of about Rs. 6,575 were received from the District Opium Officers for disposal. The aggregate value of the unserviceable stores thus amounted to Rs. 53,351. Out of this, stores valued at Rs. 49,169 in the books were sold during the year, and realised only Rs. 6,007, leaving a loss of Rs. 43,162. The write-off of this less has been asnetioned by the Government of India.

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CHAPTER IV

GOVERNMENT OF INDIA

EDUCATION, HEALTH AND LANDS DEPARTMENT CONCERNS.

MATHEMATICAL INSTRUMENT OFFICE, CALCUTTA

135. Balance Sheet as at 31st March 1929.

Амишто.	As at 31-9-99.	Details. Total. Details. Total. Details. Total.	Ra. Ra. Ra. Ra. Ra. Ra.	1,595 Opening Balance on 1st 25,538 27,484	rehines during the	Less departiquies . 6240 21,194 -	6,63,107 Cymaling Edinam 4,800 1,900 1,900 1,900 2,807	2,87,880 201,073 201,790	7,300,0301 6,78,3600 Work-in-progress 12,283 13,283 5,083 5,083	12,429 Sundry Debtors . 3,166 6,941	\$,96,886 6,83,742 6,83,742	R. C. MALCOLM, A. RENGASWAMI IYER,
Languages.	As at 31-3-28.	Details. Potal.	Re. Re.	1	982.0		6,39,352	7,41,678	7,10,4011 0,61,501	STANFS.	EL. M. S	SARAT CHANDRA BIRCAR.
				Saming Omillion	Wages energed and un-	Gournment Account :-	Operating Relative on let April 1987 and 1988,	Add recorpts during	Leedure payments dro- ring the year.	Profit for the year	Total .	RAT CHAND

MATHEMATICAL INSTRUMENT OFFICE, CALCUTTA

136. Consolidated Trading and Profit and Loss Account for the year 1929-29.

	31st March 1928.	31st March 1929		March 1958.	March 1929.
	He	ă		Re	2
To West-in-Progress Repair the Lustraments in works	10,087	04.55 10.55	By Massianture	2,07,018	8.38.87
Wagen (Works and General)	1,41,130	10,101,019	o Instrometta told	15,480,876v	5,38,30%
elte.	16		" Repair charges re-avered	1,84,093	2,44,088
Depredative	0761/L		Sale prosessin of conditioned stores.	602	1.78M
Renth, Rates and Taxes	\$100 mm	21	Profit on revaluation of stock	2008	\$6 U2
Police Charges	6,306	1,866	a strack-taking	480	Spring
Sande, Other Expenses :-	-		Raftuni of Customs Buly	10%	
Fr plit Chairs	27.1	6,416	Microllageous	1903	-
News Language			Work-in-profitees	32,730	98,900
	21.985		Repairable funbruments in works	13,188	5,086
Rent of Physics Wift pos-off Walne of Alores Wift pos-off	870 1,481 1,008	870 1,046 12,429			
Total	11.60.821	11,67,878	Total	11,60,821	11.67.878

137. Stock Account of the Mathematical Instrument Office, Calcutta, for the year 1923-29,

1928-28, Re. 4,49,876 31,708	5,87,808 78.5 900 2,006	2,69,920* 19,756* 2,02,991*	13,31,488
1927-29. Re. 4,72,943	2,43,192 3,928 9,490 9,490	2,03,084	12,35,030
T. By Government Departments. The Works District Source and Manufabilities. Now Works. The Works for manufacture and	IV. Diant, Machanery and tools forms Shoak-taking defining. Clouds Adance.	(ii) Markings ready for same for organisty purposes (iii) Makeriali in stock for the magnitudency of instruments referred as no longer required.	Total
1985-20, E.A. 2,68,084 19,755 2,01,078	188	22,043,012 32,354 76,254 2,001 101	18,31,490
2, 10,237 25,439	80,650 1,092	82,000 8,721 68,730 1,02,847 9,005	19,36,629
1. To walse of stock on let April — (i) Articles couly for haum for orthogram (ii) Mobilization stock held for military purposes (iii) Materials in stock for the manufact	(iv) Inspectional retarned as no longer required required. 2. Adjustment don to revaluation— Not instrumed Recepts— (i) Inspected articles	(ii) Articles locally purobased (iii) inanalacitum at workabop (iv) Articles termine by Corumanent departments as no longer required (v) Articles taken from reparable storm and made corrisonble after repairs 3. Stork-taking surplus 4. Miscellance ar receipt	Total

Dunes and condemnal, de., Store.

828	22	18
8	30,830	32,308
5	31,440	10°00
- 1		
Amount realised by sale of otherwise	value on shove and value realised	Total
31,310	000	32,309
20,468	\$	39,371
		-
4	WOOD WILLS	To
	in alboyo	

Difference Re. 74—bess that the custompouting figure in the Ralance Shoot under investigation in the Mathematical Lastrument Office.
 Difference Re. 95—in access of the corresponding figure in the Ralance Shoot under investigation in the Mathematical Instrument Office.

MATHEMATICAL INSTRUMENT OFFICE, CALCUTTA.

138. The Mathematical Instrument Office in Calcutta is administered by the Surveyor-General of India as part of the Survey Department. Its functions are to manufacture or to import mathematical and other instruments required by Government Departments and to repair such instruments. Thus the activities of the office are organised in two directions, Workshops and Stores. The Workshops carry out manufacture, repairs to instruments, and recombining of second hand instruments returned by Government Departments which have no further use for them. In the Stores are stocked not only new imported instrument and those manufactured in the office, but also second hand instruments reconditioned in the Workshops.

139. The accounts of the Mathematical Instrument Office have been maintained on commercial lines with effect from 1st April 1927. In the original scheme of commercialisation it was suggested that the results of working of the two sections, viz., Stores and Workshops should be exhibited separately. The final decision reached, however, was that this elaboration was not necessary as the present system is sufficiently detailed for all administrative purposes. The importance of introducing a proper costing system has often been urged upon the Survey Department which is responsible for this office, and Covernment have decided that the matter should be taken up on the return from leave of the Superintendent, Mathematical Instrument Office. Doubtless the introduction of a costing system will give some difficulty. Although a considerable number of instruments are made for stock or on order in the case of which work may be considered as standard, there is besides a very large number of jobs of the utmost variety and also often of the greatest intricacy. A visit to the workshops is a revelation of the delicate work on optical instruments which can be done in India. The only way of judging at present of the general adequacy of the prices charged for repair work, etc., is the final result of working for the year, and the profit of Rs. 12,129 is evidence that prices are fairly correctly gauged. It is believed however that a proper costing system would give the Superintendent increased facilities for control; the system might first be applied to standard work and thereafter extended to repair jobs.

140. As mentioned above the Mathematical Instrument Office manufactures to a standard pattern for stock, and also does a large amount of repair work. Instruments sent for repairs are repaired and returned to the sender. Instruments returned to this office as no longer required are taken on stock on valuation statement to be reconditioned and issued later or condemned if found unserviceable. The head "repurable instruments in work" shows the value of those instruments on which repair work is being done at the opening and closing of the accounting period, while works in progress refers mainly to manufacture. The head " repairable stores, work transfer components, etc." on the debit side of the Trading and Profit and Less account represents the value of the articles issued from stock, including the repairable instruments to be retained in stock, which are to be worked up in the shops. The entry "value of Instruments sold " on the credit side of the account represents the sale proceeds realised from the sale of Instruments, the book value of which is found on the debit side. The balance of the two represents the gross profit or loss on the sales.

141. The net financial result of the working of the Depot, taking the Workshops and Store sections together was for the year under review a profit of Rs. 12,429 against Rs. 1,603 for the year 1927-28. A summary of the working results below will explain the difference in the results of the two years:—

Year 1027-29. Ra 2,07,862	Particulars. Gram profit on repairs and manufactane of Instr		Year 1028-29, Sa. 3,31,422
60,104	Gross profit as sales of (astromouts	a 11	67,738
2,274	Miscollaneous Receipts	# q.	8,676
3,60,244	Definat-	24.	3,02,727
3,68,641	Wages and neperal expenses	a e	3,30,29s
1,608	Not Profit		12,420

The percentage of expenses on gross profits and receipts, etc., during 1928-20 is 96.8 against 99.5 in 1927-28.

Indirect charges have shown certain increases during the year under review as compared with the previous year:-

							1927/58.	1593-00.
foresen on Capital							Na. 35,011	8a. 35,518
Proviouszy charges		i.					20,740	27,012
Sundry expenses ,	4				k	4	21,094	22,397
Tologibione rent		e,		D*	r.		370	870
Stores written off .		-	9-	b	,		1,481	1,685
adust-						-	85,642	58,002
Profit on revelention	and s	-	Luking				1,377	782
						-	94.105	67,249

It will be seen from this statement that the increase in general expenses is 3.6 per cent, over those of the previous year.

142. Balance Sheet.—The value of land and building is not included in the list of assets of the Mathematical Instrument Office, as the concern is at present being charged in the professed account for cent for the occupation of the buildings. A valuation of the buildings and land has already been carried out by Government and the suggestion to transfer these assets to the concern is at present under the consideration of Government. There is however no appreciable difference in the charge for tent as compared with the expenditure which the concern would bear by way of depreciation repairs, etc., if the assets were transferred to the concern.

- 143. Other Balance Sheet items are not worthy of notice except, perhaps, the increase of Rs. 21,898 in stocks and stores over the balance on 31st March 1928 due to an increase in the purchases of serviceable stores.
- 144. The Balance Sheet shows Gump Stores at present at their original book value, without any allowance for depreciation. The principle underlying the formation of a dump store was that the Mathematical Office should not be debited with interest on stock for which there was a very small demand and which had ordinarily no market value and was retained only for possible use or sale when favourable opportunity occurred. Government have accepted this principle and also the audit suggestion that the value of these stocks should not be taken as an asset in the commercial accounts of the Mathematical Instrument Office and that interest and depreciation should not be charged on them, but that they should be revalued at a nominal value of Rs. 100 and the difference between this amount and the present book value should be written off to Capital account. The necessary adjustments, in accordance with Government orders will be carried out in the accounts of the year 1929-30.
- 145. The valuation of Stores has been made on the basis of the book values contained in the Priced Stores Ledgers kept up in the Office. The balances of certain items of Stores Ledgers kept up in the Office. The balances of certain items of Stores are contained plates, etc., have been valued at rates in excess of the issue rates marked against them. It is explained that these articles have existed in Stock for a number of years at the old values and that the difference between the original and the revised rates would be written off gradually as and when the issues are made. This procedure does not seem to be correct. It has now been suggested in accordance with Paragraph 208 of the report of the Public Accounts Committee on the accounts of 1926-27, Volume I, that the difference between the book values and market values should be adjusted as soon as possible under proper sanction as otherwise the valuation assigned to stocks in the Balance Sheet will not represent correct figures.
- 146. When proforms commercial accounts are maintained in addition to the Government accounts the ordinary methods of disbursing, receiving and accounting for money are applied just as in the case of a non-commercial department. The link with the Government account is seen in the Balance Sheet entry of Government account as explained in paragraph 3 above. In the present case both receipts and payments have gone up owing to the general increase in activity in the concern, but on the balance there is a slight drop in Government capital account excluding profit for the year. As however profit for the year is not withdrawn from the concern it is adjusted to Government Capital account and in actual fact Government Capital account has at the end of the year risen above the 1927-28 figure.

GENERAL REMARKS INTRODUCTORY TO THE ACCOUNTS OF THE FARMS & CREAMERY.

147. Bangalore, Wellington and Karnal Farms and Anand Creamery form a group of quasi-commercial concerns under the control of the Imperial Dairy Expert : their primary function is research and education and they were acquired, and are worked by the Government of India for the purpose of providing familities for education and research in connection with the closely allied and important problems of animal busbandry and dairying. All of these four institutions have a specific part in the system of education, diploma and postgraduate, given by the Imperial Agricultural Department. Students are trained at these four centres, and each centre gives the particular class of teaching and experience for which it is particularly fitted and for which purpose it is maintained. Each institution does produce, however, marketable products, and the commercial side has been developed as a support to the educational side so that the best possible use may be made of revenue producing assets and the final cost of education and research may be as low as possible. The accounts of the Farms and the Creamery are divided into two sections · Education and Research' and 'Commercial' activities to exhibit on the one hand the cost to Government of the training of students and of research into problems of animal husbandry, and on the other of the trading in the produce of the Farms and Creamery. This division of accounts cannot isolate the effects of experiments on the commercial activities of the farm for not infrequently experiments tend to incapacitate permanently or temporarily the best stock from functioning in a manner most profitable to the commercial side.

148. The reviews in this section deal with these institutions as entirely separate commercial units. The Dairy Expert claims that as these institutions form part of one educational and research scheme they should be judged by the combined results. Further, the financial results of farms are very largely affected by climatic conditions which vary from year to year, and by outbreaks of epizootic diseases which in some years may be prevalent, and in others non-cristent, and it is therefore necessary to study results not of one year, but over a series of years. In deference to this view the group results of these institutions for the past three years are given below:—

Ven.	Çast ı	e Education and Remarch.	Commercial activities Profit and Loss.(—)
		The.	Ra.
1926-27	,	1,40,360	37,083
1927-28	¥	1.36,310	27,712
1028-20		1,05,950	30.230
Total		4,42,620	95,060

The average yearly profit for the three years on the commercial side is its. 31,687 and the result may be regarded as reasonably satisfactory.

149. It may be mentioned that in the commercial accounts of Government Farms indirect charges such as Audit fees, Direction charges, Interest, etc.,

have not been included. These are given in a footnote to the accounts and the final results inclusive of these charges can be worked out if desired. The decision not to include these charges was taken by the Government of India and acquiesced in by the Auditor General for special reasons (among them those mentioned in para. 147) affecting Government Farms.

150. In dealing with the accounts of these institutions certain questions of general interest to the tax-payer were put to the authorities responsible for the control of these farms, and it might save the time of the Committee if the results of the auquiries were recorded here. It may be stated that the reasons given are the explanations of administrative authorities and not of the Commercial Audit Branch, but that the latter has no desire to impugn them.

To the question why milk production cannot be restricted to the demand and the available market the reply was that this is impossible because of the variability in the yield of the cow, her periods of calving, and of the available market. Yield is affected by weather conditions and the health of the animals; demand is affected by the health of the buying public. Supply and demand in milk is difficult to reconcile in any part of the world, and the usual policy followed by milk producers of supplementing their own supply by outside purchase cannot safely be followed by Government farms because of possible contamination of outside sources.

It was suggested that money might be made by the sale to the public of the improved young stock which it is the Farms' business to produce. The difficulty here urged is that there is no market yet in which such young stock will fetch economic prices because of the lack of appreciation of the advantages of improved stock. To create this appreciation is one of the functions of the whole organisation.

It will be noticed in the reviews of the Bangalore and Wellington Farms that selling prices were reduced to rates which do not cover the cost of production and of delivery. These reductions were made in sympathy with a fall in prices of dairy produce all over the world, and were imperative in order to retain the existing custom.

It is noticeable that Farm milk cannot be used for the production of butter at competitive prices. The reason is that the dairies produce cows' milk which contains 4 to 4½ per cent of fat against the 7½ to 8 per cent of fat in buffaloes milk. Hence it is impossible for butter made from cows' milk to sell at competitive prices in the open market. Further, milk produced on Government farms from expensive stock must be more expensive than that produced by animals grazing on common lands where there are no labour or overhead charges.

The essential reason for Government Farms not yielding greater profits is that the commercial activities are always influenced by requirements in connection with the primary purpose of education and research. If it were to be laid down that these institutions must pay their way even on the commercial side all research, experimental and educational work would have to cease.

IMPERIAL INSTITUTE OF ANIMAL HUSBANDRY AND DAIRYING, WEILLINGTON.

101. Summarised Balance Sheet as at alas March 1929.

	9	10 A 25 A 2		8,018 8,018 10,678	931	1,89,018
Property and Assets.	Finna of moto.	Lated as seed Spirecanted value) Hand and Maclitiery (Depreciated value)	Plouting Acents.	Livestook at valuation Hantathras Commissible Shorm, spain parts, Dairy pro-	Samury Debtons	Total
	7	191.69		000,0005 0,415 15,654		
	44 44	1,78,767				1, shulls
Chepartal proof Landbillahom.		8,115 Studies Creditions				Trial
でおきたが書す	Re	1,05,469				L.74,073

E. G. WHITFICK,

Superintendent, Imperial Institute of Animal Rusbandry and Dairying, Wellington.

C. F. CEORGE, F.S.A.A., Asstt, Director of Commercial Audit, Madras.

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IMPERIAL INSTITUTE OF ANIMAL HUSBANDRY AND DAIRVING, WELLINGTON.

152. Summarised Trading and Fruit and Loss Account for the year ending 31st March 1929.

	Receipts	100	自己	admille .	to Education and 18,754				Total 1,16,000		
	bartanian at Reorgista		Sinte of Dully Produce		Approximation on Sattle Sat services Sat services to Educations Engineers.						
			100 100 100 100 100 100 100 100 100 100						1941, M22		
1	Edycarton Commer- dal Reserve Artivities		30,470	11,060					1,100 955	of chin	0.000
-1928-38-	Education Commer- dal Reservoir Activities		8,494	200	227	11	ı,	1		and Indian	000 000 000 000 000 000 000 000
I,	Not Expend-		E.473	14,313		17,000		100 mg/s	1,10,000	Tat medical	- 98
	Partinulars of Rependiture.		Freed of Cattle, Rees of Lenn sand Cultiva-	8400, 10th, Small, Friend, adjust, Appendigmentations. Real Charagest Endablishments Lack Just Best Milliaments Leaflars Best Milliaments				States, one. Programme of Duiry Produce melitding freight. Profit.	Total	A Pr	5 Leave and Punishing charges . 20 , and 80°. 5 Share of Directing charges . 50°. and 80°. 5 Audit For
	1947.38		MB. 926	860	38		90	1,567	908.00		1,283 000 9,000 9,000 9,000

153. Store Accounts for the Animals belonging to the Imperial Institute of Animal Husbandry and Dairying, Wellington for 1928-29.

STATEMENT I BALANCES :-

								Rs	Ä,	'n.
To Balance on 1-4-1929 .							100	20,995	0	0
Add receipts (Statement II)			8.	a	×			20,975	4	0
								71,920	4	0
Debut leave (Statement III)		٠		8				17,795	4	Ð
				Total	Ra.			84,195	P	0
a-										F
81	PATERI	ENT I	i ike	CHLI-7	8 0-					
By Cash purchase								17,560	4	0
n increase in value through to	evaluni	ion	-	(4)	۰			3,365	0	0
			1	Toin!	Re.		£.	20,925	4	0
	TATION	actor 1	n I	BUNG	:					
To Sales (value of Animals co	ndenn	ed an	rl en	ld)				2,500	0	0
denths								10,485	U	0
of decomme due to revaluation				4				4,715	n	0
shimination of fraction of a	Rupes				4	-	-	0	4	U
				Total	Ra.			17,795	4	o

Name of the agency employed for the varification and revulgation.

D. CLOUSTON. C.L.E.,

M.A., D.Sp.

C. L. V. NAIDU

Accountant.

E. G. WHITTICK.

Superintendent,
Imperial Institute of Animal Husbandry and Davrying,
Wellington.

Examined and found correct.

C. F. GEORGE, P.S.A.A.

Assistant Director of Communical Audit,

Mailras

IMPERIAL INSTITUTE ANIMAL BUSBANDRY AND DAIRYING, WELLINGTON.

- 154 The trading of the year shows a net less of Rs. 19,150 against a net profit in the previous year of Rs. 7,827. This less is chiefly due to outbreaks of foot and mouth disease and rinderpest in the Wellington Farm. The effect of this outbreak has been cumulative as explained below; it has been responsible for—
 - (i) Decrease in milk yield.
 - (ii) Casualties.
 - (iii) Increase in expenditure under grain and fodder charges.
 - (iv) Increase in medical charges.

The following other causes have added to the loss in the working of the farm :-

- (v) Loss in cultivation due to failure of the mensoon.
- (vi) Increase in expenditure under Plant and Machinery.
- (vii) Increase in expenditure under Fuel, Light and Water.
- (viii) Reduction in selling prices of farm products.

155. The loss in milk yield is apparent from the following figures :-

						1928-20.	1927-28.
No. of animals milked		4				17,115	17,168
Milk yield in lbs.	ь	4			*	215,710	234,532
Milk purchases in the.	9			-	100	39,954	20,541

156. The loss arising from casualties was Rs. 10,485-0-0 of which Rs. 9,900-0-0 is reported to be due to the outbreaks. The loss in 1927-28 due to casualties was Rs. 2,700-0-0. The total net loss due to casualties, condemnations and valuation was Rs. 13,093-0-0 in 1928-29 against Rs. 1,106-0-0 in the preceding year. The loss has to be sanctioned by the Government of India.

157. The following increases occur under :-

						Re
Grain and Fodder	-					4,214
Cultivation ,					,	2,318
Repairs to Plant and Machinery		-				1,384
Medical Storm				8		2,763
Fuel, Light and Water, etc.						2,994
						13,583

The increase under grain and fodder is attributable to the increase in the price of hay supplied by the Military Grass Farm from Rs. 1-8-0 to Rs. 2-11-6 per 100 lbs. for one month and to Rs. 1-14-0 per 100 lbs. for the rest of the

year. The net loss under cultivation was due to a failure of crops for want of rain. Extensive repairs to an old boiler are responsible for the increase under Repairs to Plant and Machinery and the higher charges for medicines are due to the outbreaks of cattle disease. Purchases of milk cans and ploughs and the valuation of a Bluegum plantation which is considered as a fuel reserve account for the increase under fuel, light, water and other stores.

158. The loss on the working of this farm has been calculated only after charging 20% of the expenditure on the feed and keep, etc., to "Education and Research" and without taking into consideration the following charges:—

	100

	Tobal.	Balansti Rem	on and		noroial
	Ra.	%	126,	38	Rn.
Leave and Pennionary alwayse	1,560	20	313	80	1,252
Share of Direction charges	900	- 50	460	89	460
Andit For	600	20	120	80	4.90)
Interest charms	12,078	80	6,000	60	6,030
	35,143	10	0.022		8,991

159. These charges have, however, been included in working out the all-in-costs are compared with the selling prices;

	19			1028-29.											
	e velling pur lik	A	H-in-									ecusa Uh.	Averag		
Ba	A. P.		Re.		s. Tr.					Re		No Po	Re.	de.	P.
-	2 36	5	0	3	5-68	Milly		¥		11	5	8-0057	***		
		}	0	1)	1.93	Dolivory	charg	(con		0	0	1:84 3	0	3	8.0
4	8 7-9	8	1	3	11.66	Hutter			-	-1	4	4 62 /		1	
	0 12	1	0	U	1:46	Delivery	ohur	(Anna		(1	0	1.01	,	8	2.2
		5	2	6	3.9	Cmain		1.5		- 8	18	11)			
1	12 0	1	0	0	1:25	Delivery chading	chuz	til til	in- npa.	0	ō	1.31	1	12	Œ.

The increase in the cost of production is explained in paragraphs 154 to 157 above. As already explained it never pays to convert farm milk into count, but a certain quantity has to be converted to meet the demand of regular

customers as an incident of trading in Dairy produce, and a loss has to be faced on this account. The drop in the average prices is due to the following reduction in selling rates:—from 1st August 1928 the rate for supply of milk to Hospitals was reduced from Rs. 0-4-0 to Rs. 0-3-3, and from 1st November 1928 the rates for all customers were reduced from Rs. 0-4-0, Rs. 0-3-3 and Rs. 0-2-6. Butter prices were reduced from the same dates from Rs. 1-10-0, Rs. 1-8-0 and Rs. 1-6-0 per lb. The reductions in rates were sanctioned by the Government of India and the rates of Rs. 0-2-6 per lb. for milk and Rs. 1-6-0 per lb. for butter are privilege rates for married families.

160. The following herd and milk statistics are of interest :-

	1000	1938-39.	1097-28.
Closing stock of milking beed on Stat March	. No.	64	73
No. of cown milked during period		17,110	17,168
No. of come day		5,684	9,868
Yield of milk during year	5 1ts.	218,710	234,322
Average yield per animal		12.6	13-00
Total quantity available for sale inclusing purchases of milk	Towal His	1246,146-6/ na.	242,195 13 m
Quantity mild	n 64	234,230 0	227,401-13
Leanna to cream such buttor	1-10	838,4853	12,68R

The variations in the milking herd are as follows :-

Sale of cattle Doubles							1		-		9 . 11
otal vacancies	whiel	la lad	ve l	been	filled	որ i	oy :-				
Purchases			. 14					٥			
Transfers from	young	maco		- 1	-	*	-		-	1	9

161. Balance Sheet.—Property and Assets. The increase under lands in due to the capitalisation of expenditure on improvements. Under buildings the additions comprise:

											Ro.
New model c	attle die	rel la		2	*						14,016
Milk recordin											1,100
Calf shed .						۵	- 14				1.400
Bull pen .						0				*	980
Additions to	Sapervi	MITTER B	quartem		*		17	-	4.7		1,304
Extensions to	o acgres	a. She ista	shed		-			-			176
											18,869
											101mag

Depreciation has been written off at rates approved of by the Government of India.

- 162. The capital addition under Plant and Machinery is Rs. 565-0-0 representing the value of a Bamford grinding machine. Depreciation has been written off at rates approved by the Government of India.
- 163. The livestock was valued on 17th March 1929 by Dr. Clouston, the Agricultural Adviser to the Government of India, and his valuations have been adopted. The following English stock was added during the year:—

							Ba
7 haifars Ra. 1,800 each	6	T	7	-			12,600
I padigree bull				- 4		25	2,000
							14,600

The following is summary of the value of livestock carried in the Balance Sheet:-

										Ra
Cows-pure-head									-	20,800
Cowa-half-bred		,								15,960
Young stock-Fem	de .			100						8,770
DoMale										308
Bulle	- 21					- 0		-		8,000
					Tota	اللس أ	cing b	nord		80,835
D	runghi	outtle.								
Bullocks										2,890
Horana	•									480
Other items—goate	100	-	٠		-			*		10
										64,125

- 164. The Bluegum plantation is considered as a fuel reserve, and will only be exploited when fuel is not available locally at reasonable prices. Under consumable stores there has been a substantial reduction. The Sundry Debtors are all good.
- 165. Capital and Liabilities.—In this section of the Balance Sheet there are no items calling for remarks. The amount added to or deducted from the Government of India Capital Account represents figures according to the books of the Farm duly reconciled with those in the books of the Pay and Accounts Officer, Survey of India, Calcutta, who is the primary audit officer.

IMPERIAL INSTITUTE OF ANIMAL HUSBANDRY AND DAIRYING, BANGALORE.

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		_	-	-	-		-	-	_	7	-	100
1928-20.	Commercial Activities.	Rs.	22,903	88,117	14,009		990799	10,100	7,001	20000	2,24,942	airying, Bangalore,
1928-49.	Education and Research,	Re.		00,430	20,900		15,481		12	**	1,07,783	dry and De
	Total.	Re	22,963	1,67,547	36,081		79,496	16,199	7,001	Z. Sign	8,82,725	A. LAMB, Superintendent, Animal Husband
166. Summarised Delainor chart we at the parties of the	Property and Ameta.	Flund Amete.	Land at good	Buildings (Depoculated value)	Plant and Machinery (Deproclated	Pleasing Annels.	Livestock at Valuation	Consumable stores, spare parts and Dairy preduce Ran Sundry Debton: Ran Ran	bad .	Coult		(8d.) A. LAMB, Superintendent, Imperial Institute of Animal Husbandry and Dairying, Bangal
Delance	1987-38.	Ra.	20 P.C.3	1,61.018	31,590		(6,46)	20,312		2,007	3,06,101	-1-9
Summarised	1008-30	2	-	16,621		3,19,20.0	10		110		3,32,725	roial Audit, Madrae.
	abilitie				Chapital							3E, 1
	Capital and Labilities.		-	10.431 Sandry Oreditors	97,730 Government of India	Account .	-					(Sd.) C. F. GEORGE, F.S.A.A., Asstr. Director of Commercial Audit, Mad
1	1927-28.	3		10.481	97,730	4-					3,08,161	

167. Stores account for the animals belonging to the Imperial Dairy Institute, Bangalore, for 1928-29.

Statement I-Balances.

Balance on 1st April 1928 . Beceipts (Statument II)			-		Re A. V. 65,661 0 0 28,272 4 0
form (Statement III) '.	Total				98,733 4 0 14,297 4 0
Balance on Stat Merch 1929					79,496 0 0
Stateme	nt II—R	Receip	ota.		
To coah purchase		2	1		14,427 14 0 1,383 0 0
To increase in value through revi			· ·	Ŧ	12,461 6 0
Sinfam	Total	· ·	-		28,272 4 0
	igna I t 1 -	-135	ires.		
By sales					5,876 0 0
By deaths	P (4)	4			1,585 0 0
By decrease in value through rev	atuation	*		a	6.776 4 0
	Total				14,237 4 0

Name of agency employed for the verification and revaluation:

The Agricultural Adviser to the Government of India.

(Sd.) A. LAMB,

Superintendent,

Imperial Institute of Animal Husbandry and Dairying, Bangalore.

(Sd.) SURYANARAYANARAU,

Accountant.

Examined and found correct.

(Sd.) C. F. GEORGE,

Asstt. Director of Commercial Audit, Madres.

IMPERIAL INSTITUTE OF ANIMAL HUSBANDRY AND DAIRYING, BANGALORE.

168. Summarised Trading and Profit and Loss Account for the year ending 31st March 1929.

Particulity of Rocal pla. Rocality Edmeston Commercial Rocal Activities. Re. Re. Re.	ury produce rain and Foddor cons Recoplar Stadonice Transfer of Denight mobiliery	1,000 1,00	
Autivities.	68,847 988 6 8,819 7,717 8 16,880 2,880 2,881 2,882 67 8	1,380 1,318 1,086 26,380 1,04,863 1,61,030	
Net Expendi- vute,	of land and Salt, Fied, 78,177 14,036 (w. elec. 8,280 (4,088)) (a. 11,123) (b.	4,896	200 10 10 10 10 10 10 10 10 10 10 10 10 1
1927.28. Paraldulars of Exponditure.	Pood of oattle, Ecut outhristion, for, Light, Contagnated Pay of Officers Pay of Berakiahuru T. A. and other alio Rent and Ecpairs to Regains to Plant, san Deproduction on :—	heding kions, fachias males, froight	Descripted and Paddress Audit Westernian Streets Easing Streets Colleges Colleges Colleges Colleges
102		-	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IMPERIAL INSTITUTE OF ANIMAL HUSBANDRY AND DAIRYING, BANGALORE.

- 169. The working of the year showed a net loss of Rs. 3,557 under Commercial activities as against a loss of Rs. 1,098 in 1927-28. The loss is due to various factors, viz.:—
 - (i) increase in the milking herd;
 - (ii) increase in the number of young stock carried;
 - (iii) the increases under (i) and (ii) resulted in an increase under cost of feed and keep;
 - (ie) reduction in the quantity of milk sold compared with that sold during the previous year;
 - (e) increase compared with the previous year's quantities in issues of milk for conversion into cream and butter;
 - (vi) a Capital loss of Rs. 1,029 in connection with the rebuilding of a cattle shed.
- 170. The quantity of milk obtained was greater than that saleable as milk and the surplus was converted into butter, etc. The cost of producing farm milk is so great that it pays only to sell it as milk; its high quality ensures it a good market. It cannot be used for the manufacture of cream or butter at competitive prices and it is generally issued for that purpose only when there is an unsaleable surplus or this course is indicated by ther trading exigencies. It is argued that causes (i) to (v) always operate in the running of a Dairy Farm, as it is not possible to fix the strength of the herd on any particular formula owing to the vagaries of milking cows. The number of animals milked daily and the average yield per animal are the important factors in meeting the demand for milk and the following figures are of interest in this connection:—

	1928-29,	1927-28.	1926-27.	1025-26.
		Cow	Section 1	
	Mo. (a)	No.	No.	No.
Strength of milking herd at close of	168	(ð) 138	110	135
Number of animals milled during the	98,243	32,016	32,625	28,686
Milk yield for the year	4,00,123 13-8	4,23,068 13/2	4,35,851 13 4	5,57,729 14'4

(a) Includes 5 purchased in March 1929.
 (b) Includes 10 purchased in March 1928.

171. The quantity of milk available for sale, the quantity sold, and quantities issued for conversion are given in the table below:-

Net quantity available for cale		4		1928-29. (ba. 1,63,627	1927-28 fin. 4,27,071
Quantity mid		*		3,50,140	3.37,104
Percentage sold to that available for ad			4	75/40%	78/09/1
Inmen to emain and butter				1,01,000	73,784
Percentage to that available for cale		- 100	-	21-78%	17:20%
Impos to choose muzufacture .	*	- Ger		12,000	15,500
Percentage to that available for sale		*	Ŀ	2-10%	8-83%

As a Dairy farm should aim at selling its total output of milk as milk the decrease in the percentage of milk sold and the increase in the percentage of milk issued to conversion for cream and butter indicate how the loss has occurred. It was contended that the increase in the issues to conversions to cream was justified by the increase in the number of young stock for which a milk ration is prescribed, commisting of one part of new milk and 5 to 6 parts of separated milk, and the following figures were furnished in support of this contention:—

	Number of calves fod with milk.	Quantity of asparated milk required as tations.	Actual quantity immed for asparation (Orman only).
For six months ending 30th September 1928 Monthly average For six months ending 31st March 1939 Monthly average	No. 153 30 345 57	1bs. 26,388 4,400 81,128 8,621	Iba, 30,968 5,160 70,080 11,660

172. The increase in the milking herd and in the young stock carried have contributed to the loss by increasing the expenditure on feed and keep. The increase in expenditure on feed and keep in Rs. 5,465 and in addition the issues of farm milk for feeding of young stock increased by 16,147 lbs. These increases are supported by the following figures:—

	Got	70.	Buffaloes.		
	1988-29.	1997-99.	1029-29.	927-28	
Number of animals milked during the	No. 36,263	No. 32,016	No. 1,912	No. 2,378	
year. Number of saimals dry during the year.	18,908	13,589	2,053	1,648	
Total .	55,151	48,005	3,965	4,025	
Young stock-cour only.			Female.	Mala	
Opening balance			101 128	70	

173. If the vacancies that occur during a year in the home herd be considered, the number of young stock carried appears to be out of proportion to the requirements of the farm as the following figures show:—

Additions to milking herd.						Na
Purchases from outside .						24
Transisered from young stock				•		24
# Paternamental and the second			Te	Leste		40
Condemnations and casualties			•		٠	18
						30
Condimensions and cassisters Not increase to the herd						30

The Imperial Dairy Expert has put forward a proposal to make the farms under his control self supporting in the matter of young stock. His idea is that young stock in one farm may be utilised to fill vacancies either in the home farm or in outside farms. This would mean that the young stock at Bangalera could be utilised to fill vacancies in either the Wellington or Karnal farms. The effect of the transfers would be carried out in the commercial accounts, and if the budget grants for the three farms were amalgamated the grant would be unaffected. Prima-facis there appears to be no objection to the proposal.

174. The following are details of the condemnations and casualties referred to above :-

			Condemnations an	d unles	Casualties		
			No.	Value,	No.	Valen.	
Corri Buffaloos Cattle pound shot -			14 2	90s. 4,406 800	4	Re. 1,460	
Bulls . Primates Bulls pound doc! Bulls	-	*	3 2	646	3.5 27	180	
Females Fullwates Pogies		4	3	a0 75		49	
		-		5,876		1,665	

176. Of the causes which contributed to the less, one remains to be explained, etc., the capital loss of Rs. 1,029 in connection with the rebuilding of a cattle shed. A cattle shed, which was carried on the books at Rs. 1,029 was dismantled, to make room for one of a new and modern type. The Superintendent agreed to take this loss on to his Profit and Loss account, as he was utilizing the dismantled materials in repairs to existing buildings. He has been asked to keep a numerical account of all the materials he receives and of their disposal.

176. The increases under expenditure on " Pay of Establishment" (Rs. 2,429) and Rent and Repairs to Buildings (Rs. 603) are due to in the first case chiefly to the employment of an extra supervisor and charges in connection with leave which he took, and in the second case to the replacement of fancing costing over Rs. 1,000 from Revenue.

177. The details of the total of Rs. 14,237 appearing in the Trading and Profit and Loss account as Depreciation of cattle are given below ;—

200	make the second							B		4.	F.	
	Liepreciation or	mrah	iation	100		4		9,7	770	4	(3)	
				*	1			1,	184	D	0	
(iti)	Condemus tions							5,	870	0	Ö	
			1				Total	14,5	137	-	0	

Particulars of items (ii) and (iii) above are given in pars. 174 ante. The decrease under item (i) is offset by appreciation due to revaluation. The appreciation is chiefly in respect of 24 heifers transferred to the milking herd and is also due to an increase in value of young stock carried. The increase under young stock is given below:—

		Female.		Malo.		
		No.	Value.	No.	Value.	
Opening stock	1	101	5,975 8,135	59 70	Rs. 2,780 3,496	

178. The loss of Rs. 3,557 does not take into account the following charges:—

Allocated to

			Total.	Education and	Research.	Commercial not	ivities.
			Ra	ist.	Ra.	Files	Elm.
August Son			1,000	20	200	RÓ	800
Audit fee . Direction tharges		,	1.800	20	300	80	1,440
Leave and Pension	агу						
charges.			1,977	00	1,186	40	701
Officers .			1,321	40	529	00	702
Interest		-	20,175	40	8,070	60	12,106
т	otal	7	10.510		10,345		15,028

^{179.} Allowance has, however, been made for these charges in working out the all-in-costs of the dairy products, and the following table shows the costs and selling prices for the current and previous years:—

	LIEL	100			
	Piese.	× 2	95	ф	6.01
	Selling price per lk.	-i 00	05	2	*
	30	g g	_	-	
		-			
		nin	~~	m	
	ž	* 90 SS	0 6	3 9	9
	Cost per Ib.	4 00	20	in 65	+3
1923-179.	Con	R. 0 0	4.4	84 0	
9	10.10	200	- 0	61 0	20
					- 7
					•
					Individue cont of cups.
		E 12	1.72		at of
					8 .
		T char	· Shar	4	nofted!
		Parm Milk Delivery charges	Butter , Delivery charges	Cream . Delivery charges	=
		A A	4 4	8 8	į
				-	
	1.2	4 % %	3 5	0.11	49
	Cost per lb.	400	g 0	• n	*
1927.28.	Till S	- P	× 0	6 P	6
3				6 P	
		4	Congression	4	
		- 05			
	ag ,	4 2	94 00	=	5
	Selling price per lh.	₹ 00	00	<u>ea</u>	
	<u></u>	Re.	-	~	-

Cheese is manufactured only for instructional purposes, and it is an incident of trading in dairy produce that a loss has to be faced on cream manufactured for sale to regular customers. The increase in the cost of butter is due to the large quantity manufactured from farm cream owing to a larger quantity of milk having been issued for conversion, trade para, 172 ante. The lower price received for milk is due to the reduction in rates sanctioned in the course of the year, a reduction from As. 3 Pies 6 to As. 3 per lb. being made for milk supplied to Military Officers, Hospital and Institutions from 1st Angust 1928, and from 1st April 1928 this reduction was made applicable to the general public.

180. The following milk and herd statistics are of interest :-

	Year ending	31-3-1920.	Year ending	31-3-1928.
	Cown	Buffaloes,	Com.	Buffalces.
Closing stock of milking hard .	No. 188	9	158	n
Number of animals milked during the year.	No. 36,243	1,012	32,016	2,378
Yield of milk during the year .	fb. 490,123	220.265	423,056	24,283
Average yield per animal per day .	13-5	11.2	13-2	14-4
James to farm stock	65,074		40,527	+*
Loss in handling pasteurisation and distribution.	ів. 3,491-6	5.6	10,009	
Percentage of less in handling, etc., to total opening balance re- ceipts and purchases.	% 1-69	2.0	2-07	
Quantity available for sale Farm-				
Milk and purchase	lb. 4,83,827		4.27,071	44
Quantity sold	2,50,140	10	3,37,104	
lams to cream, butter and obco	1,13,303	246	80,291	

The statistics relating to cows and milk production and sales have been dealt with in the preceding paragraphs. The drop in the yield of buffalces is the only noteworthy item to be explained. The drop has been continuous, from 20 lbs, per animal per day in 1925-26 to 19 in 1926-27 to 14.4 in 1927-28 and to 11.5 in 1928-29. The drop to 14.4 and 11.5 is attributed to the feeding experiments which are being carried on at the farm and to the increased age of the buffalces, which have passed their best milking age.

- 181. The following is a review of the Bulance Sheet. Property and Assets.—
 The increase under Buildings is due to the building of a new cattle shed.
 The increase under Plant and Machinery is chiefly due to the purchase of a motor larry and addition of a Pasteurising Vat. Depreciation has been writtenoff at rates approved by the Government of India.
- 182. The Livestock is carried at the valuation made by Dr. Clouston, Agricultural Adviser on 14th March 1939. There was a net increase of 30 head to the milking herd of cows, and the depreciation and appreciation due to revaluation and the loss from casualties and condemnations are given in paragraph 10 ance.

183. Consumable stores, etc., show a reduction and the following surplus stores are awaiting disposal:—

								Quantity.	Value.
Collapsible o		s for l	ce bri	eks-				No.	Ba.
No. 1	+	6		4	4	4	ı	5,000	310
No. 1			*				-	6,090	350

184. Sundry Debtors.—Government of India have sanctioned the writing down of one had debt to a nominal figure pending the closing of the liquidation of the Dairy Company owing the amount. It has since been ascertained that the whole amount is irrecoverable and an application is being submitted for sanction to write-off the amount. Pending such sanction the amount is being carried forward. Under liabilities there are no items calling for explanation. The amount added to and deducted from Government of India Capital Account represents the figures according to the books of the Farm, which have been reconciled with those in the books of the Pay and Accounte Officer. Survey of India, Calcutta, who is the primary Audit Officer. The Capital account has been increased by the following assets received by the concern the value of which have been adjusted to other grant heads:—

				Ra
(i) Cost of Friendad Bull	obtained	through	the High	1 000
Commissioner	4 6	M - 0	* *	1,335

(ii) Part costs of a Pasteurising Vatment from the grant for experiments of the Agricultural Advises 1,000

Regarding (i) the amount has been finally adjusted as expenditure in England and therefore no adjustment has passed through the books of the Pay and Accounts Officer. To show the true position of the concern however it is necessary to include this expenditure in the Commercial accounts. For the same reason the sum of Rs. 1,000, paid from the Agricultural Adviser's grant for experiments towards the cost of the Pasteurising vat, has been included.

Appendix to the Appropriation Accounts of the Central Government (Civil) for 1928-29.

IMPERIAL CATTLE BREE-

185. BALANCE SHEET AS

Linbilities.		1927.28.		1928-29.	
Sundries Creditors—		Ra.	Ra.	Ra	Ru
For malaries, wagen, etc		5,137		3,441	
Purchases of stores		10,001		4,443	
et es Livertock		**		49	
. Advance payments, etc		14		Ŧ	
" Sales Ledger credit balances .		08		1-0.	
	_		15,206-		7,840
Reserve for Bad and doubtful debts .		44	908	51	1908
Permanent Advance		441		14	2,000
Government Capital		**	4,24,449	9.1	5,05,885

55 pt will be an

Total Re

4,40,503

5,16,733

(Sd.) S. COX, Superintendent, Imperial Cattle Breeding Farm, Karnal,

(Sd.) ANUP CHAND, Accountant, Imperial Cattle Breeding Farm, Karnal,

DING FARM, KARNAL.

AT 315T MARCH 1929.

Amota.	1027-38		1028-20	
	Ra.	All or	te.	Re. 89,359
Land		99,369		op-our
Bellding	71,869		77,323	
Additions during the year	6,300		10,035	
	78,200		97,268	
Less-Depreniation written-off .	928	20 14.5	970	96,298
Plant and Machinery	58,312	T7,333	63,565	start entro
Additions during the year	13,655		1,028	
Mississing frame and Jean	71.947	_	67,426	
Defact-depredation written off and	18,440		6,878	
Defact—depresanton whose		53,501-		60,583
Livertock	**	61.000	6.8	82,610
Milk Cons	13.371		9,515	
Lara-Depreciation written-oil	3,856		3,830	
Late-Depreciation with		0,515	-	5,860
Sandry stores	**	13,008		22,508
Shanding Crops	* 5	27,114		80,333
Sundry Debtons	-	10,168		10,629
Cash in hand				122
Balance such in hand—Impress	**		1,504	
Add-Expenditure to be recouped .	7.7		495	2,000
		11		
Profit and Loss Account				
Not accumulated deficiency to 31st March 1927 and 31st March 1925	24,302		75,622	
Cost of Education and Research .	88,454		82,197	
Defeat-Profit on Commercial .	-17,224		-51,400	
Add-Adjustment for 1927-28 .	-	440 0000	225) On artis
		70,623-		1,06,573
Total Re.		4,40,583		5,16,733
7 3	- 11	(Sd.)	S. C. SEN.	

(Sd.) S. C. SEN,
Assistant Audit Offices,
Commercial Audit Branch.

THE IMPERIAL CATTLE

186. COMPARATIVE DEPARTMENTAL TRADING AND PROFIT

Dr.

	Cottle breeding	and distrytion.	Commercial.		
Particulaes,	Bitmention of	od research.			
	1987-29,	10.3.10.	1027-38.	1008-29.	
	Ra	Ra	Rs.	Ra.	
To Commencing stock	. 7,818	8.086	23.40	in Asia	
. Value of standing crops	* **	o a	7,140 22,344	7,033 27,114	
Grain and fodder		4.1	30,794	31,633	
Dally produce	1 17	7 000	**	8.0	
Cultivation charges	- 1,588	1.023	14 000	**	
Feed and uplicep of outile	44,624	68,546	14,070 0,883	15,280	
		.coine Roberton	#BKSENCEOP	111:685	
Gross profit carried down.	\$4,058	78,534	81,443 31,709	92,714 77,406	
	54,035	78,034	1,13,150	1.70.180	
Cost of education and research	ab				
brought down	- 28,165	36,020	4.0		
. Salarine and Wagon, etc	. 10,078	16,900	14,312	618,61	
. Repairs to Buildings 6:1	. 6,839	4,971	855	#21	
White and machinery 6:1	4,643	7,539	TTE	920	
Heating and lighting 9:1	2,489	0,285	319	098	
Medical stores 9:1	- 1,050	766	125	BIS	
Fragel	- 780	3,094	210	409	
White the state of	- 2,827	1,035	473	188	
The same for his his will be didn't the	1,137	1,174	000	9:20	
Cimulties of live-stock (actual)	908	2.7	44		
Paralleman alleman of the same but at	1,390	2,176	1.0	717	
Depreciation on buildings Sci	5,881	7,435	24	245	
a plant and machinery		863	103	108	
Deproclation on milk condenser	. 5,285	5,700	188	9(4)	
milk cans (actual)	. 323	9.1 95.1544.00	1.00		
Br.	3,856	33850	9.0	* *	
Describe in revaluation of					
draught unimals . 1,233	- 4	-4	71	563	
Less approduction in revalu-	100		7,5	181763	
ation 10	8.0	-14	1,213	**	
N. 1944	80,364	W7.878	an and	-	
Not profit on Commercial	- a s - and Militaria	and the same of th	20,280 17,223	20,202	
		4 4	11,233	新1,40 葉	
	#0,364	07,878	37,492	77,864	
direct charges not included in the	6				
Leave and pensionary charges	2,330	2, 193	1,950	an autom	
Supervision charges	more	000	(charing)	2,372	
Austral Toon lek	Olyo,	600	600	P is -	
Interest on Capital 3:3	14,107	14,226	9,495	100	
	*****			- Transfer	
	17,945	17,910	11,055	12.458	

Or.

BREEDING FARM, KARNAL.

AND Loss Account for the year ended 31st March 1929.

	Onti	the broadless ward	datrying.	(halid walds	A.	
Particulars.		Education and m		Commercial		
Lat Dimension	١,	1097-28, 1	1928-19,	1927-20.	1918-89.	
		Ra	Rs.	Re	Rs.	
12.4		10,626	14,113	37,105	44,571	
Sales		9,300	18,881	41,807	64,649	
Rading stocks		8,063	11,961	7,059	10,027	
Value of standing crops			- 14	27,114	50,322	
A VIOL OF SECURITY AND THE		28,000	41,806	1,13,150	1.70,180	
Cost of objection and research carr	ñoil	25,155	38,929	-1		
down	-	84,058	78,534	1,13,150	7,70,180	
. Omes profit on cultivation brow	ight	4 *	= 4	21,700	77.400	
Miscellancom escalpia		4,044	3,305	6,71-3	108	
"Depreciation recovered from An	and	900	,		AL	
Approxiation of iten stock in-						
1927-28, 1928	3-2P.					
Ra. R	Lu.					
Less decrease in re-	.503	6,807	7,829		.,	
By Profit on sale of young stock .		1,090	4,617			
		11,010	15,751	37,492	77,064	
" Net cost of advention and re-	eense'		82,127	2 p	St. St. 1	
during the year		80,364	97,878	87,A92	77,066	

IMPERIAL CATTLE

187. COMPARATIVE TRADING AND PROFIT

Lig.

Ra. 14,908 22,344 30,704 27 1,856 14,670 6,085	Ea. 15,99 27,11: 31,03; 1,03; 15,29 40,53; 1,01,68;
22,344 30,704 27 1,886 14,670 6,055	27,11) 31,031 1,021 15,381 40,531
22,344 30,704 27 1,886 14,670 6,055	27,11) 31,031 1,021 15,381 40,531
30,704 27 1,886 14,670 6,685	31,031 1,022 15,281 40,530
27 1,586 14,670 6,685 90,844	1,02 15,38 40,53
1,586 14,670 6,555 90,844	15.28 40,53
90,844	15.28 40,53
90,844	40,53
90,844	
. 81,350	1,01,589
	35,80
. 7,094	7,500
5,417	6,48
2,808	0,984
. 1.176	84
	3,443
	2,113
a miles	
	1.890
20	is qu
di _e	
79	* * *
18 0,018	7,580
GPAC.	070
	6,650
204	0.00
8,850	3,656
. 74,265	86,645
	6,016 8 6,016 926 0,160 323 8,850

BREEDING FARM, KARNAL

AND LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1929.

				Cr.
			1927-28.	1928-99-
By Sales of :-			37a. 37,106	Ra. 44,571
Grain and fodder		- 12	10,480	14,038
Dairy Produce			41	80
Skins		5 1	15,906	12,568
* Ending Stooks			27,114	50,333
Value of standing crops			40,448	inhibition
		-	20,844	1,31,585
			0,686	40,538
By grow profit hid			9,827.	3,502
Hisoethenrous receipts . Add—Depreciation on milk condenser fro	m Ananci cream	ery .	PUD	
Not Approxistion of live-stock			4,394	7,266
"Profit on Sales of young stock .			1,000	4,617
* FIGURE ON COMMON OF THE PARTY	1927-28	1928-29		
17 To Marcol and Co.	Ra. 1,510	Ra. 10,197		
Sain proceeds	. 1,420	5,580		
	1,090	4,617		
Net deficiency for the year carried to I	B/G		51,230	30,726
	Toral	Re	74,205	86,648

188. Summary of Store Account of the Animals belonging to the Imperial Cattle Breeding Farm, Karnal, for the period 1st April 1928 to 31st March 1939.

Item No.	Particulars. Amount
	Ra. A. P.
L	Balance on 1st April 1923
2.	Add receipts as per statement No. II 21,383 0 0
3.	Total Ra 1,03,338 1 0
4	Deduct—disposed off as per statement No. III 20,600 14 0
5.	Balance on 1st April 1929
SECTION AND ADDRESS OF THE PARTY.	Statement No. II.
6	-To pumis
7.	from Government Farms (Book transfer)
. 9.	. increase in value through revaluation 9.331 12 0
ū.	Total Ra 21,383 0 0
24.	Statement No. III.
16.	By malor
11	. Deaths 2,892 13 7
12.	" Decrease in value through sivaluation 2,000 0 0
	Total Ra 20,698 14 9

Name of Agency employed for the verification and revaluation. "Imperial Agriculturist to the Government of India, Pusa".

8. Cox, Saparintendent,

Amp Chant,
Accountant,
Imperial Cattle Breeding Form, Karnal.

Examined and found correct.
S. C. Sen,
Assistant Andls Officer,
Commercial Audit Branch.

IMPERIAL CATTLE BREEDING FARM, KARNAL,

- 189. The accounts maintained at this farm are not in commercial form and the government system of accounting which was in force prior to the taking over of the farm by the civil department still continues to exist. The figures appearing in the books of the farm have been duly reconciled with those appearing in the books of the Pay and Accounts Officer, Survey of India, Calcutta.
- 190. The activities of the farm are two-fold, (is. (1) Cattle Breeding and Dairying and (2) Cultivation. All activities relating to Cattle Breeding and Dairying are "Educational and Research" while those relating to cultivation are wholly "Commercial". In the compilation of the accounts of the two activities, actual expenses have been shown under the corresponding heads of activities and other expenses which cannot be directly allocated have been distributed generally in the proportion of "Feed" charges of the two branches.
- 191. The gross and net profits relating to the commercial side (cultivation) for the year 1928-29 compare with those for 1927-28 as shown below:

		1928-29,	1927-28.	Percentage of
Gross Profit	,	Re. 77,400	Rs. 31,700	146
Net Profit	V	51,403	17,223	107

The substantial increase both under gross and net profits in 1928-29 as compared with the figures for 1927-28 is attributable to the following causes:—

1. Increase in the sale of grain and fedder in 1928-29		-	20%
2. Increase in the value of standing crops on 31st March	1020		151
3. Increase in the cutturn of grain and fodder issued for Breeding and Dairying including ending stock March 1969 less increase on direct charges.	r Carl	tie Ist	40%
Increase on gross profit			145%

The parcentage of total indirect charges on gross profit on the cultivation side for 1928-29 was 33 against 45 in 1927-28. 192. Sales of grain and fedder during 1928-29 and 1927-28 and the value of standing crops at the end of each year were as below:—

					_	-				1028-20.	1927-39.
Sales							1	3	Y.	Fts. 44,571	84s. 27,100
Value	of mi	un/ling	e erop	4 .	-		14	41		50.333	27,114

The increases under these heads during 1928-29 as compared with 1927-28 were due both to a better outturn of crops in 1928-29 and to the extension of cultivation by the farm over a larger area.

193. Grain and fedder produced by the cultivation side and milk vielded by the Dairy are both used for feeding cattle, whether draught or dairy cattle. Credit has been afforded in the Departmental Trading and Profit and Less Account to the respective sides for the total of these commodities supplied for feed purposes and the actual consumption has been charged off against the activities concerned. The credits and debits to the respective sides during the years 1928-29 and 1927-28 in connection with feed and upkeep of cattle are set out in the following table:—

	1928	29,	1921	1-28_
- 3 to	Commercial.	Education and Research.	Commornial.	Education Mail Remarch.
Credite (Biccipte),	Ra.	Rs.	Ra	Re
Grain and Fedder	. 11,610	4.8	41,897	an 4
Milh, etc	- 25	10,551		9,209
	64,949	18,561	41,907	0,309
I/o' ità (Consumgdica).				
Grain and Folder	11,865	52,095	0.083	35,316
Mills	* -	15,651	F 8	9,300
	11,658	05,640	0,548	44 654

194. The ratio of the feed on the Dairy side to feed on the cultivation side during 1928 9 and 1927-28 was 6:1 and 7:1 respectively. The cost of feeding under cattle breeding and dairying during 1928-29 was Rs. 68,546 as against Rs. 44,624 in 1927-28. The substantial increase in the cost of feeding was mainly due to—

- (1) increase in the number of animals.
- (2) want of grazing grass which compelled the animals to be stall-fed.

195. The ratio of feed charges referred to in paragraph 190 above remained at 9: I approximately; the working out of this ratio is given below :-

					Cattle lie	eding an	d Dairyle	:W=		Cultiva
	-	→		Cours.	Young stock.	Calres.	Ante.	>heep and goate.	Sheep dog,	Draught animals
On 31st	March	1928		171	239	112	8	2	**	56
N	PI	1929		100	101	163	6	163	1	73
				361	430	275	14	185	1	129
Monn	100		-	180	215	138	7	82	1	65
				28.8	**		623		444	68

196. The selling rates of the dairy produce during the year 1928-29 were as follows :-

Milk from Rs. 0-1-3 to Rs. 0-1-6 per lb.

Butter and Cheese from Rs. 1-4-0 to Rs. 1-6-0 per lb.

Cream from Rs. 0-14-0 to Ra. 1-0-0 per lb.

Ghee from Rs. 0-14-0 per lb.

197. During the half year ended 31st March 1929 the total yield of milk from cows and buffalces amounted to 186,322 lbs. The average yield per cow per day was lbs. 5 while that per buffalo was lbs. 8 oz. 4. The percentage of sales of fresh milk to the total yield was about 12 14 and as the sale of fresh milk is the most profitable method of disposing of the products of the dairy, the departmental authorities have been asked to consider whether a market for the sale of fresh milk as such cannot be found, due regard being paid to the exigencies of Research and Education. A very substantial portion of the total yield of milk, i.e., about 51-57 per cant. was separated for cream making.

The ratio of milk to cream was about 11:1.

198. Sales of surplus and condemned animals during the two years 1928-29 and 1927-28 were as follows :-

	Your ended 3t 1929.		Year ended 31st March 1928.		
parties and the same of	Condemned.	Surplus	Condemned.	Surplus.	
	Ba	Ra	Ba.	Ra.	
Book value of condemned and surplus animals.	10,168	5,580	7,45d	1,420	
Value realized for animals sold	2,278	10,197	1.480	2,510	
Difference being profit or loss	-7,880	4,617	-6,016	1,090	
B	lalance Sheet.				

199. Buildings. The value of the buildings on 1st April 1928 was Rs. 77,333. Additions during the year 1928-29 amounted to Rs. 19,235 and depreciation written off the asset account amounting to Rs. 970 has been credited to the asset account and charged to the Profit and Loss Account.

200. Plant and Machinery. The value of plant and machinery on 1st April 1928 was Rs. 53,502. The following items were added:—

										Plan.
	Dairy transcoperator		4	-	В					312
	Estipo thrader .			6	oj.	UI.				400
(0)	Chaff entire	4	,							316
(4)	Weighhelden			٠.					1	2,050
(6)	Electric fittings .									244
116)	Lister hand sheep alon	riug m	wedsing			÷			-	210
	Howe mower fitted wit				14					386
			200 000				14	-		Michaelli.
										3,926

The total depreciation for the year, including an adjustment of Rs. 225 in respect of the milk condenser sold to the Amand Creamary in 1927-28, amounted to Rs. 6,875. The value of the plant and machinery on the farm on 31st March 1929 after deducting the amount of depreciation therefore amounted to Rs. 50,553.

201. Livestock.—The value of the livestock on the farms on 1st April 1928 was Rs. 75,566. Purchases during the year 1928-29 amounted to Rs. 12,051. Five cows valued at Rs. 1,768, two bullocks valued at Rs. 526, three young animals 27 calves valued at Rs. 225, one sheep valued at Rs. 23 died of natural causes. One cow valued at Rs. 160 was destroyed as it was a suspected case of Johns' disease, and one bull valued at Rs. 191 died from the effects of snake bite. The total loss due to casualties amounted to Rs. 2,893. Sales of condemned livestock worth Rs. 10,158 realized Rs. 2,278 resulting in a loss of Rs. 7,880, while the sales of young stock worth Rs. 5,580 realized Rs. 10,107 giving a profit of Rs. 4,617. The livestock was revalued towards the and of February 1929 by the Imperial Agriculturalist to the Government of India, and this revaluation resulted in a net appreciation of Rs. 7,829 in respect of dairy cattle and a depreciation of Rs. 563 in respect of draught cattle.

202. Sandry Stores.—The details of the closing stock on 31st March 1929 selating to (a) Cattle Breeding and Dairying and (b) Cultivation were as below:—

	Parti	huluju.				Total	Cattle Breeding and Dairying.	Cultivation
						Ra	Ru.	Ra
Comin and Fodder						9,387	**	9,387
Dairy produce .		14	4			ő6a	(55)	14
ice, Salt. etc		el				2,131	2,181	
Unitivation along		141		4		212	8.8	213
Musellamboua .			ę	+		10.282	0.284	1,029
				Total	J ,	22,565	11,941	10,637

The surpluses and deficits revealed during the course of verification of stores, carried out by the Assistant to the Agricultural Adviser to the Government of India, were duly brought to account during the year 1928-29, under the orders of the Imperial Dairy Expert. Stock as on 31st March 1929 was not verified by the farm authorities but it is understood that the Assistant to the Agricultural Adviser was to take the stock when he next visited the farm. The book values, as certified by the Superintendent of the farm, have been incorporated in the accounts.

203. Standing Crops.—The value of rabi crops standing on 31st March 1929 was calculated on the basis of actual realisations when the crops were harvested in May and June 1929; necessary deductions were made to get at their value on 31st March 1929.

204. Sundry Debtors.—The balance outstanding against a certain Company on 31st March 1928 was Rs. 1,916-7. During the year 1928-29 Rs. 1,000 were paid towards liquidation of this debt leaving a balance of Rs. 916-7 on 31st March 1928 still payable by the Company. A sum of Rs. 907-9-9 has long been due from another debtor Company and the debt has been fully provided for by way of reserve. It has since been ascertained that it is impossible to recover any portion of this debt and the matter is under the consideration of the Agricultural Adviser to the Government of India. The rest of the debtors are considered good.

205. Government Capital Account-

This account is built up as follows :--

	Pag	Ag.	Ei-
(a) Balance on lat April 1928	4,24,440	0	a,
(b) Cash receipts from Government during 1929-29	1,44,184	0	0
(c) Book transfers and credit adjustments during 1928-29	11,260	0	ū
	5,79,902	0	0
Re. a. P.			
Lew-			
(d) Remittances to Tressury during the yest . 64,352 0 0			
(s) Book transfers and debit adjust- ments 0,680 0 0	74,017	D	O
			-0
Balance on 31st March 1920 .	5,05,885	0	0
		_	-

The amount of capital invested in the concern has therefore risen by Rs. 81,436. This increased capital has been employed mainly in increasing the value of buildings (Rs. 18,965) and of standing crops (Rs. 13,219), and in financing the deficit on the whole working of the farm including the non-commercial side (Rs. 30,725).

GOVERNMENT RESEARCH

206. BALANCE SHEET

Linkilition.	1028-29.	Corresponding balances on \$1st March 1939
	Ra	Ha
Sundry Creditors and Credit Balanons .	2,672	4,308
Accountant General, Contral Revenues .		8,870
Germment Capital Account	1,70,143	1,40,408

1,81,814

1.5L,778

CREAMERY, ANAND.

AS AT SIST MARCH 1929.

Amoia,			1928-29.	Corresponding balances on 31st March 1978.
			Bat	Ra.
Land		al al	24,000	24,000
Buldings			28,368	28,168
Plant and Madunery .		4	49,012	46,407
Office Equipment .			837	530
Stoom and Stooks .			19,766	28,247
Stradry Debtom		1	27,000	3,171
Cash and stemps .			1,487	2,008
Cost of Education and	1928-29	1927-36		
Definet.	31,705	24,588	20,150	19,210
Not profit on Comme	cial 1.55%	6,172	201100	101-10
26/s lone	30,150	19,216		
			1,81,816	1,61,773

GOVERNMENT RESEARCH CREAMERY, ANAND.

207. TRADING AND PROFIT AND LOSS ACCOUNT FOR THE YEAR EXPED 31ST MARCH 1929.

£	Corresponding Senter for 1927-29	The same	30,860	23.48.2	1,261		60,603	801.03	160	:	12	0 12.01 °	95,410			
	-	ä		11,002	416	61	96,004	3	200			*30.150	COMPA-TRO			
			By Saltes	Ending Swells .	Net receipte for packing, etc.	Ortica Lens		By Orem Profit brought down	Misnelfaggeore Reportus	. Institute Foot	Missellageous Adjustancias	Not Loss to Rathrey Sheet	1028-29 1927-25 Fa. Ba.	of Education 31,705 Steaming	Net profit on Com- 1,553 5,173	SELECT 18, 218, 18, 218, 18, 218, 18, 218, 18, 218, 18, 218, 18, 218, 18, 218, 18, 218, 2
	Corresponding ligares for 1927-28.	Ba	1,169	68,600	Sino	50 selection 100	80,003		22,1176	1,412	1,028	25,416	1,78	909"	1,000	I
	1028-29.	Ra.	10,489	72,022	:		\$00,004		180/18	30	-1	31,930	1,724	10,088	1,000	900
.A.			To Commonwing Stocks	Cost of Production	a Advertisement	. Gross Profit earried down .		To Green Loss framphil down	. Expenditure on Benerch .	Deprendiction on Milk Condesser	. Provintan for doubtful debts .		Rechaled Charges Contribution	Interest	Andth Fees	Direction Charges

GOVERNMENT RESEARCH CREAMERY, ANAND.

- 208. The functions of this Creamery are two-fold as it has a commercial as well as a research and instructional side. Its commercial activities include the manufacture of cream, butter and ghee from milk. These is not manufactured. The Dairy produce is sold to local and outstation customers, and there is a good local market for the by-products, vis., separated milk and Cassin. Indian Dairy Diploma students are trained at the Creamery, where they are given practical demonstrations. A certain amount of research work is also carried out.
- 209. The manufacturing account is compiled in two sections one for "Commercial" and the other for "Research". The manufacturing expenses are apportioned in the ratio of 7 and 3 between Commercial and Research respectively. This ratio was suggested by the Imperial Dairy Expert and was based on past experience; it has been approved by the Government of India.
- 210. The creamery belonged to the Military Department and was managed by the Agricultural Department up to 30th September 1927. It was acquired by the latter Department on the 1st October 1927 and the assets were re-valued for purposes of accounts. A system of commercial accounts was introduced from the 1st April 1928, and is working satisfactorily under an Accountant who received his training in the Commercial Audit Branch.
- 211. Summarised forms of the Balance Sheet and Trading and Profit and Loss Account are prefixed to this review. The outturn of butter during the year under review amounted to 66,456:4 lbs. as against 51,033:6 during 1927-28. The cost of production per pound of butter in these two periods was as follows:—

Itemp					C	emmential scat p	er Ds. of butter.
						1927-29.	1928-29,
						Ra. A. g.	Ra. a. r.
Hred Charges—							
Dairy Produce		.Eu			4	0 11 0	0 11 1
Stone and Chamicals						0 0 11	0 1 1
Coal			4		6.	0 0 11	0 1 4
Labour	11					0 0 6	0 0 6
Depresention of plant			4			0 0 8	0 0 0
Repaim		-2				0 0 2	0 0 1
					-		
		10	layet	0004		0.14 2	9 14 10

Indirect Charges-						Ba.		<u>A</u>	Re	n.	p.
Salaries, etc			4		4	U	20	2	0	2	3
Sundry Expenses .				91		0	ù	8	0	0	4
Deposition of Buildings.	aic.		¥			0	0	2	0	0	1
		Ind	reat :	coat		Ú	2	0	0	3	8
	Cour	ol Pr	oduci	tion	4	1	ø	8	1	1	6

212. The increase in the direct cost in the year under review arcse out of the larger expenditure under the heads Stores and Chemicals and Coal and was due to the extra cost involved in running the refrigerating plant for an abnormally long period during the year in order to preserve the large stocks of butter in cold store. These stocks were the result of the surplus output of 1927-28. The indirect cost has also increased. This was due to the increase in travelling expenses which was incurred in order to advertise the products of the creamery. A further reason was the increase in the amount of the sundry expenses which are a from the inclusion in the accounts for the first time of the charge for Municipal tax.

213. The following statement of the yield from milk of cream and butter was compiled from statistics available at the Creamery; although there was a poorer yield in 1928-29 the increase in the cost of milk utilised to yield a pound of butter was negligible.

			122	7-28	193	9-29.
			Iba.	68.	The	OE.
Quantity of milk stillised to yield one lb. of cream		14	8	-6	8	0
Quantity of eream used to yield one lb. of butter .		,	1	10-4	1	11-6
Quantity of milk used to yield one lh. of butter .	14		13	10-9	14	6.2
Cost of milk used to visid one ile. of butter			-1 -1	lto 1		

214. The following sales were effected during the years 1927-28 and 1928-29 :-

								1927	-28	1029	29.
								Khu.	COS.	Man	OBS.
Carolina			*			ie.		13	7	272	10
Butter						a	*	29,820	4	71,678	5
Oh-	*	*	20		-e			1,289	10	3,176	13
Mille		.00	.9		40		-	1,130	8	ila	- 0
Caselin				-				7,582	8	15,748	4
Верхина	ed M	119	٠		- 1		+	124.683	0	337,796	-0
Value r	n Tin	d		-			-	Re. 30	3,850	-	3.759

The tendency of the sales to increase is a satisfactory feature of the activities of the creamery.

215. There was a gress loss on the trading of 1928-29 which amounted to Rs. 225 whereas in the year 1927-28 there was a gross profit of Rs. 5,465. The conditions of the two years under which these results were achieved were very different. In 1927-28 the output of butter, the main product, was not limited to the demand but was nearly twice as much as the demand. The result was that costs were reduced and the profits inflated. The excessive stocks of butter on hand with which the year 1928-29 started rould not be disposed of readily, and had to be kept in cold store for purposes of preservation. The extra costs incurred did not, however, tend to increase the value of butter which, on the other hand, began to deteriorate. Instead of realising a fair price this "cold store" butter had to be disposed of at an average rate of about Rs. 0-13-6 a lb, while fresh butter realised between Re. 1-0-0 and Rs. 1-2-0 a lb. The inadequate receipts from this "cold store" butter is the main reason for the loss in 1928-29. The stocks of butter on hand on the 31st March 1929 were valued at Rs. 0-13-6 a lb. which is below cost. The whole of the "cold store" butter was not disposed of until early in 1929-30

216. If miscellaneous receipts and fees be allocated to the commercial side the net profit on the commercial activity during 1927-28 and 1928-29 was Rs. 5,172 and Rs. 1,555 respectively and the cost of Education and Research in the two years was Rs. 24,385 and Rs. 31,705 respectively. These results were obtained without taking Interest, Audit charges, etc., into consideration; these excluded charges are shown as a foot note to the Profit and Loss Account.

Balance Sheet.

217. The following additions were made to the assets during the year 1928-29 :--

							Ha.	
Buildings					*	40	685	
Plant and Machinery				*			8,169	
Office Equipment .		æ	14			4	366	
								9,160

Of this sum Rs. 658 represented the value accorded to existing assets which stood in the books at a "nil" value. The details of these additions are:

lings—			Ha.
Ashestos roofing over sunnon a condensing plant		a	170
Compound wall, expenter shop, Drain and Latrine		*	*465

Amaria

filg out a	and Machinery—							Ba.	
	K. E. E. Mill for grinding casein	44				e.		1,065	
	4 Champion butter churus .	ē			1			580	
	4 Butter workers	íc		4				403	
	Wooden siand for chloride accumulat	ior				350		133	
	Refrigerating plant					i		-896	
	Contribugal Pump		a	B				297	
	Weigh Bridge		4	-				1,201	
	Astra combined butter worker and of						-	1,515	
	Oil Engine, 3 H. P					*	-4	301	
	Separator, 90 gallons size							+66	
	Miscellaneous items .		a		V			*148	
							,	-	8,169
y w	Epolyment—								
	8 Chairs		w					94	
	8 Tables							76	
	1 Cup boant							*80	
	Benches, etc.		4					15	
	27 Cots for students	4		4				101	
							-	_	755

The items marked thus* were already in existence but bore no value, they were brought on to the books at the above values during 1928-29.

218. Reduction of Assets. The reductions were brought about by Dopreciation and by disposal as indicated below:—

e e le	B 800									Re
Depreciation	on Buildings				4					23;
	Plant and Ma	ohinery	,				*			4.87
149	Office Equipm	vint .	-							ā
										5,16
and the sale	and Machinery									
Comment is consumer.								Hs.		
6 Creat	u sepiratore .			*		- 2		578	Book	value
Motor v	wall open shaw		į.			-0.			1	h _{ris} ,
Ohee B	loffer			-	4			51		
							-			
								diam.		

The realisation from the sale of these items amounted to Rs. 507 and the loss of Rs. 178 was written off in the Profit and loss Account of the year.

219. The Stores and Stocks on hand on the 31st March 1928 and 1929 were as follows:—

100	m.		or E	11st March 1928.	31st March 1929.
				Ru.	Ra.
Communite Store		4.1		+,828	7,358
Chamicals .	-	1	v	055	477
Conl				299	\$39
Dairy Produce		4		5,786 22,482	8,674 11,002
				28,987	19,700

The increase in the consumable stores was caused by the purchase of butter containers and machinery spare parts, and also by bringing unpriced items on to the ledgers at a value. The increase in the coal stock was due to the purchase of three wagon loads towards the close of the year. The stores were verified by the audit inspector of the Agricultural Adviser to the Government of India, during December 1928. The closing balance of dairy produce was verified by the Superintendent of the Greamery. The butter stock which is the largest item of this group was valued at Re. 0-13-6 which was below cost, and was the then market value of "cold store" butter.

220. The Sandry debtors have increased considerably. The figures appearing in the summarised Balance Sheat for the two years are not after allowing for a reserve of Rs. 1,028 for a doubtful debt. Attention is invited to the following figures:—

Date.			Salan.	Outstanding debtors (grow).	Parsanjage on sales
			Ra	Ra_	
31st March 1928	-	×.	19,462	4,100	21-58
31st March 1920			48,657	29,024	59-65

With the exception of the doubtful debt mentioned above, which has been reserved for, the other outstandings are considered "good". Since the debtors appear to be out of all proportion to the sales the attention of the Imperial Dairy Expert has been drawn specially to the outstandings and a closer sheek on the credit allowed has been suggested.

221. The Government Copital Account has increased from Rs. 1,40,490 to Rs. 1,79,143. The main reasons for the increase in the amount of money Government has had to put into this concern are (1) the increased cost of Education and Research and (2) the large outstandings under Sundry Debtors owing to the amount of credit allowed.

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		one of the same of		-200700			10079	THE STATE OF	7.7433 2.8034			22,806 22,806 27,108	37,880	YER, A.40,732
LARGIE 1929.	F 21.22	25.00 mg	1,450	67,888	10,067		No.	1	1	27.	8,6,80 300 888			SWAM IYER
AS AT 318T)				oprodulius on		onide register.	4	d Ameia			* B			(Sd.) A. BENGASWAMT INER. Ambirtant Director of Commercial Armille, Caloutta C
CPERIMENTS	Assistan	144 April 1928		ak cost kee d		wile mid implim		Total of Pixed Assets		der her ten thorn	9.0	Jas March 1929 nation dond good)		Amalin
222. Balance seret of the Agricultural Section—Cultivation Experients as at 31st March 1929.	And addition	Briblian se cont en les April Add schitten	Les depreciation	Plant and Machinery at cond loss depreciation for April 1028.		Less branchiered to Tools and Implements register			Funkay and Pittings	And which in the content of the April 1926	Pertury county Hier	As yes valuation on also March 1929 Stories Standing orange at valuation Smally Debtors (considered good) Stale proceeds on lead	Lon during the year .	
SOTION—CO		1346 Boild		Plant.		11		Wheele	Tal.	1,44,200 .444.	/ ledus	Au yang Salamdi Sanding Sala pe	Lon	Notice, Joint Director, search Lastitute, Pure
OULTIMAL S				2,80,676	1,17,633	8,57,909	73,113	3,24,796	23,466				*	(Sd.) W. Melles, Officiating Joint Director, Agricultural Hessarch Institutes, Pure.
OF THE AGR.		* tomorph *			Minn) head		und Office)			must .				-
INCHE STREET	LARRING.	Rependitues from Imprest swelding recomment Sandry Creditors	Appendix of Intitie (Media) Append	April 1928	Add -receipts from Tressury (Control Office) and		Padend-payments into Treasury (Ocutral Office)		Ladizest charges due to Bovernment .	Total debt due to Governmen				otto, F
922 Ball	In	use from Impre	To describe	Palagoe at credit on the April 1928	Higher from These		safetil - payments into		sharges don to	Total debt				(Sd.) S. C. SER, Head Authland, Accounts Breagth, Agricultural Research Instit
		Espenditum from	9	Balagoe	Add - mestyte		Dadwed		Ladboot		1			Head Anni

THE AGRICULTURAL RESEARCH INSTITUTE, PUSA.

Agricultural Section-Cultivation Experiments.

223. Production and profit and loss account for the year ended 31st March 1929.

De.						i i
		Pa.	à,	y.	Rik. A.	2.
To Fond of Catalo .		13,509	13	0	Direct The nagotions.	
., Other stores consume	d .	22,117		1 0	By Oads produced 10,594 0	0
s Wagon .	F	17,026	0			
Manare	ă.	6,132	14	0	34	0
Pay of officers .		11.591	0		11,000 0	0
		25,731	0		A	0
" Oversons pay, etc.		1,800	N			0
Allowances and hence	m dell'an	1.832				U
No. 1 4 4 44 44 T	W4-3-M		0			1)
, Sundry expenses .		309	0)
	-	8,310	0	D	Loss carried forward . 14,385 0	0
Depreciation on builds	_	1,159	0	0.	Total . 1,19,021 0	ő
Plant and machinery		4,831	0	Ü		
, Livertock		1,323	0	0		
Tools and implements		1,399	0	0		
	-			-		
Total	w	1,19,021	0	Û		
	-		_	_		
To Low brought forward		14,384	0	0	By total loss 27,850 0 (,
Penalonary charges		6,018	ō	0		
" Direction charges .		1,200	0	Q.		
. Audit for		1,850	ù	0		
, fatered in mystal		14,598	0	0		
	_			_		
Total	4	37,830	0	0	Total . 37 May 0 p	
	_				37,800 0 n	
20 DCA						-

THE AGRICULTURAL RESEARCH

224. BALANCE SUEET OF THE AUBICULTURAL SECTION-

Lipbilities.

			Ro. a. v.
Expenditure from Impress awaiting clearance .			. 27 0 0
Transport charges outstanding	s a		23 0 0
Government of India Capital Account.			
Halance at credit on let April 1928	on k		1,08,805
Add receipts from Treasury (Central Office) and adjust monte.	F	-	89,583
Deduct-payments into Treasury (Central Office) and adjustments.			198,478 40,488
Capital debt dus	0 4	4	1,740,900
Indirect charges due to Covernment		-	13,109
Total debt due to Government		-	. 1,00,401 0 0

Total , , 1,00,451 0 0

INSTITUTE, PUSA.

CATTLE BREEDING EXPERIMENTS, AS AT 31ST MARCH 1929.

Asserta.

		Ra. a. p.
Ruildings at cost, less depreciation on let April 1928 Less depreciation during the year	. 65,238 . 1,828	Consumer
Plant and Machinery at cost less depreciation on las April 1928 Add—additions during the year	. 5,686 . 300	
Less transferred to Farm	5,988 520	
Less depreciation	5,466 1,104	
Tools and Implements as per valuation Livestock as per valuation on let April 1928 Loss casualties a sold	42,330 467 6,183	
Add—appreciation	35,710 8,783	44,493 0 0
Dulry produce Sundry Debters (considered good) Sale proceeds as hatel Loss during the year		818 0 0 75 0 0 8,693 0 0 75 0 0 55,233 0 0
and the second second second	Total .	1.68.451 0 0

De.

THE AGRICULTURAL RESEARCH INSTITUTE, PUSA.

Agricultural Section-Cattle Breeding Experiments,

225. Production and profit and loss account for the year ended 31st. March 1929.

LW.							Cr.
	Ra.	A.	P.		Ra.	An-	P.
To Grain and Fedder .	37,024	0	0	Direct Transactions-			
. Stores consumed , .	1,639	-0	Đ	Phone I am			
waget.	0.110	0	0	By sale proceeds of milk and its by-products:—			
, Groung	10,713	D	0	(0) Local	14,190	0	0-
"Pay of officers	11,910	0	U				
. Establishment	9.942	0	0	(6) Muantiarpus	14,400	0	0
Drozesza pay and	1,800	ü	ø	(c) Samestipus	571	0	4
Allowander and hoperata	450	0	Đ-	New 4117			
" Repairs to buildings .	1.170	0	d	(d) Laberteral	1,824	0	0
. Other expenses	2,103	0	()	Mi-collanguas Recoipte .	4,084	i.	ià.
o Depreciation on buildings	1.028	0	0				
" Plant and Machinery .	132	0	Ó	Approximina on line	1.7ng	Đ.	9
, Tools and Implements ,	340	0	0	Profit on sales of cartle .	3,419	0	D
Cost of transport of				B4-0-4			
per :	es et es	186		, Stock of cream and ghea	75	Ü	0
by (a) Ball	060	0	0	, Low carried down	63,694	0	0
(A) Motor	3.691	0	0				
penses.	771	0	0				
Cost of transport of milk				201			_
Samuelipar	125	0	q	Total .	91,165	a	0
Labertanni	320	-0-	11				
Torat.	91,100	-0	U				
W. J 1 1	and room a			De age			
To Low brought forward .	45,824	0	0	By Total loss	55,233	0	9
Pontionary liabilities .	3,525	0	0				
. Christian chiages	1,200		0				
, Apalla feca	paga	H	0				
Interest on Capital .	5,734	0	0	Total .	55,723	0	0
TOTAL .	88,203	0	0		4.90		

THE AGRICULTURAL RESEARCH INSTITUTE, PUSA.

226. The Institute consists of the following sections :-

- The Central office, under the immediate supervision of the Joint Director and the Agricultural Adviser,
- 2. The Estate Office,
- 3. The Power House,
- 4 & 5. The Farm and the Dairy,
- 6. The Economic Botanist's section.
- 7. The Imperial Bacteriologist's section.
- 8. The Imperial Mycologist's section.
- 9. The Imperial Chemist's section.
- 10. The Imperial Entemologist's section, and
- 11. The Sugar Bureau (including the Sugar Cable Service).

Every section maintains some account books and stores ledgers, but the Central Office is the channel of communication with the Treasury and the Pay and Accounts Office, and the sections hold their imprest from and render their detailed accounts to the Central office.

A quasi-commercial system of accounts has been introduced with effect from 1st April 1928 in the case of the Farm and the Dairy and a simpler system in the Sugar Cable Service and the Kitchen Garden. In commercialising the accounts of the Sugar Cable Service the reservation was made that no charge should be debited for the present to this Service for the work done by the Secretary and the Superintendent of the office of Sugar Bureau or on account of their leave and pension charges. It has been decided further that no commercial or quasi-commercial accounts require to be introduced in the case of the other sections of the Institute, including the Estate office, the Power House, and the Hospital. The acceptance of the principle of keeping the accounts of the Institute on a commercial basis wherever possible is subject to the condition that the fulfilment of the specific objects for which the Institute is established is not thereby impeded. It has been specifically laid down by the Government of India that the introduction of these accounts does not necessarily imply that the concerns should be run as profit-earning or business ones. No attempt has yet been made to separate expenditure relating to "Experimental research" and "Educational work" as the Agricultural Advisor desired to see the actual financial results of a year, before formulating any proposals on the subject.

227. The Balance Sheets and Profit and Loss accounts for the year 1928-29 are prefixed. As the commercial system of accounts has been introduced with effect from 1st April 1928 only, the figures of the provious years have not been given. 228. The financial results of the working of the various sections are reviewed briefly in the following paragraphs.

The agricultural section is the largest section in the Institute involving the highest expenditure. It consists of two main departments, the Farm and the Dairy, which at the instance of the Agricultural Adviser are now described as "Agricultural Section—Cultivation Experiments" and "Agricultural Section—Cattle Breeding Experiments", respectively.

293. Agricultural Section—Cultivation Experiments.—The Farm consists of about 800 acres and Experimental work connected with the cultivation of crops is conducted in an area of about 70 acres, while in the land outside this area, farming on a large scale involving the use of modern implements, power machinery, and a system of rotation is being carried on. Green fodder is grown on a part of the land and sugar cane is also cultivated. The other chief crops are maize, outs, arhar and gram, dry beans, cow peas, meth and some wheat. The fodder may be divided into dry bhusa, green fodder and silage. Almost all the gram and fodder produce of the farm is utilized to feed the farm cattle and the dairy herd. Outside sales are not ordinarily made.

The net financial result of the operations of this concern during the year is a loss of Rs. 14,385 excluding indirect charges, and Rs. 37,851, including such charges. As already explained above, the expenditure booked in the accounts includes the portion incurred on experimental research and educational work also. The loss may therefore be taken roughly to represent the net cost to Government of such work. The capital due to the Government of India by this concern as at 31st March 1929 is Rs. 3,48,263 of which fixed assets, namely, land, buildings, plant and machinery amounted to Rs. 2,33,363 and aundry stores including crops to Rs, 60,050. As these accounts have now been prepared for the first time, no useful comments can be offered on the abnormality or otherwise of these losses.

Balance Sheet.

- 230. (a) Land—The valuation of Rs. 1.13,325 shown in the Balance Sheet represents mainly the capital cost of the new area purchased by Government. This valuation has been fixed after making due allowance for several different factors. The land in the old area occupied by the Institute has not been valued and taken into these accounts. It is stated that no money was actually paid by Government for the purchase of the old area occupied by the Institute.
- (b) Plant and Machinery, Additions Rs. 10,447.—The details of the additions during the year are shown below:—

	Ransom's Violor's Tractor, I Bansom's Thrashing and Straw chopping machine with	Rs. 6,306		
	many top work, I	3,820	1	0
il.	86 Ideal Mower, i, teamsferred from dairy at book-value.	550	0	0

10,647 0 0

Deduct-

I. Big traily transferred to the Tools and Implement projector.

800 0 0

10,447 0 0

(a) Live Stock.—The opening valuation of live-stock with additions during the year was Rs. 8,530, while the closing valuation was Rs. 7,305.

The difference of Rs. 1.225 is accounted for by the death of two bullorks valued at Rs. 330 and by depreciation amounting to Rs. 895.

(d) Stores.—Priced store ledgers are not maintained and the figures of Rs. 32,882 represents the valuation as at 31st March 1929 of the various articles of stores, including machinery spare parts, as shown in the Farm Stores ledgers, the valuation being made at current issue rates. A similar valuation of the balances as at the first of April 1928 was made and included in the accounts as the opening balance of stores (Rs. 37,087-3-9). The stores transactions for the year are detailed below:—

							II.a.	A.	3	
Opening Balance as at 1st Ap	adl 1	928			4		37,097	3	9	
Add-receipts during the year		7:			L		85,757	9	11	
							1,22,844	8	8	
Less lesues	1	1	Ŧ		*	ŵ	97,168	12	5	
Balance as per accounts .	į.	я		1		14	35,575	10	3	
Balance as per valuation .						+	79,882	0	41	
Profit on stores transactions			,				7,900	5	9	

This apparent profit is due to the inclusion of freight on stores under "Sundry Expenses" in the accounts. The percentages on account of over-head charges (10%) recovered from Sundry customers and other departments in respect of issues of stores also account to a certain extent for the profit.

231. Agricultural Section—Cattle Breeding Experiments.—The net financial result of the operations of this branch during the year 1928-29 is a loss of Rs. 43.824 excluding indirect charges such as pensionary liabilities, direction charges, audit fees and interest on capital, and Rs. 55,233 including such charges. As already stated, the expenditure booked in the accountaincludes also the portion relating to experimental research and educational work, and the loss may be taken roughly to represent the net cost to Government of such work. The loss may be analysed as follows:—

					Ro. a. p.	Ra. a. p.
Milk onld nt-						
Pages	2				28,452 6 2	
Moundarper.		4	-		14,892 11 9	
Simuliper .				e	461 5 11	
Laberianerai .		-			1,559 0 4	45,386 1 2
Cream and Obse		6				9,847 0 0

As no detailed cost accounts are maintained, these figures are only approximate. Most of the Dairy produce is sold as milk to customers in the places mentioned in the list above and there is a branch milk depot in Muzzaffarpur. Cream and ghee are manufactured from any surplus milk. The capital due to the Government of India from this concern as at 31st March 1929, was Rs. 1,66,401. This capital is mainly accounted for by fixed assets, Rs. 59,074 and Livestock Rs. 44,493 leaving out of accounts the loss of Rs. 55,233 at the end of the year.

232. Bolonce Sheet.—Livestock, on 31st March 1929 was valued at Rs. 44,493 showing an appreciation in value of Rs. 8,783 as explained below:—

Opening Bale	laide o	n let	Airil	1028		Test		Ra.
valuation					4	in the same of the		42.230
_							Ra	
Less ennualth	190		8	4	14		467	
Sales							6,153	
								6,620
								36,710
Appreciation			*					9,783
As per Balus	te She	ek .						44,493

The sum of Rs. 6,153 shown under "Sales" represents only the bookvalue of the cattle which were sold by auction for Rs. 9,572 thereby realising a profit of Rs. 3,419.

238. The following milk and hard statistics may be of interest :-

	1—Sive	ngth	of	the A	erd o	n 31a	Man	nesh.	1929.		
No. of news		+				ai	ů.	.s			78
20 As	dry		4			1	. = 1		b.		41
Bulla		-1	+			4	>		4		9
Bulloc		140		10			a-		k.		18
, , Ball a		1.		3		à	i		-, -	¥.	819
. Heiter		4	4		+	*			R		138
n n Sheep			*				k.	V	5.4	L.	99
		1	<i>I</i> —	Mill	Stat.	sties.					
No. of anima	le milked	dusing	the the	your	9		,			98	5.710
н н	dry		91	-00						-	l ágo
Total milk yl	nki for the	year			.4					100	200 Dec.
Average yield	per anim	al per	der	*		. ,					8-17 Da

111-Statement showing yield and disposal of milk.

2.2				fina.
Total yield for the year 1928-29			4	4而,269
Deduct-				
		Mir.		
Handling loss		240		
Spolied		2,6404		
Lors to distribution				
at Pusa	*	1.501		
Musadistan dejet .		372		
Issued to animals for mediume .		78		
lament for analysis	14	925]		
Fed to salves		63,340		
Total deductions	1			44,246]
Not quantity to be accounted for	F	- 0		278,223)
Sold at Puns	13	4 - 6		190,3433
outside Puna	-	pl 20 -	4	131,706
Immed for manufacture of cream		0 0	18	70,274
		Total	4	379,323]

The quantity of spoiled milk represents 1.2 per cent, approximately of the total quantity accounted for by sales and manufacture. The quantity fed to calves represents 17.8 per cent, of the total quantity produced.

234 The cost of milk taking into account the direct charges less direct receipts as per Production and I rofit and Loss Account, is Rs. 68,731. The net quantity of milk available for issue is 378,323 lbs. The cost per lb, is 0-2-10-9 pies taking into account the net direct charges only.

The total of the indirect charges is Rs. 11,408-10-0, which works out to 0-0-5-8 pies per lb.

The total cost of milk per lb. works out therefore to 0-3-4-7 pies taking both the direct and the indirect charges into account.

The selling rates which are apparently based on local market rates, are as below :-

					Ra	AL.	p.
As Puns .			,	a	0	1	O per lbs
Outside Pma	*	ě.		#	0	22	0 4

As already stated, the production costs include expenditure relating to cattle breeding experiments also. As there is no separation of Commercial activities from Education and Research, it is impossible to by great stress on the results given above, and until this separation is achieved. Government will not be able to ascertain with any accuracy either costs of production or results of working. Further it will not be possible to compare the working of the farm, etc., in Pusa with that of other Government Farms.

235. Sugar Cable Service.—The function of the Sugar Cable Service attached to the Sugar Bureau of the Agricultural Research Institute is to obtain regular and up to date information regarding the Sugar crops of the world from the chief centres of the Sugar trade and to classify and circulate the information to the principal sugar firms in India. The receipts consist of subscriptions realised from sugar firms in India and amounts received from foreign merchants on account of the cost of cablegrams and other services rendered to them. The expenditure consists of the pay of temporary establishments specially engaged for the work, cost of telegrams to members and Indian Agents, cost of cables to and from foreign countries, stationery and other ordinary contingent expenditure.

The receipts of this service during the year 1928-29 amounted to Rs. 24,183 according to the books maintained in the Sugar Bureau of the Institute, and the expenditure, including the decrease in the opening balance of stamps, amounted to Rs. 22,493. The result is a surplus of Rs. 1,690.

233. Kitchen Garden.—In the Kitchen garden, vegetables, fruits and other consumable produce are grown and sold to the employees of the Estate. Certain additional temporary establishments are engaged for the purpose and some contingent charges are also incurred. It has been decided that this cerden should be run, as far as possible, on a self-supporting basis, as it is maintained mainly for the benefit of the employees, and not for the requirements of the Institute. The prices of the produce are regulated with reference to market rates.

The expenditure on the Garden for the yea: 1928-29 amounted to Rs. 1,269, while the receipts amounted to Rs. 1,242, resulting in a small deficit of Rs. 27.

Financial irregularities.

237. Appropriation of departmental receipts direct for expenditure.—A sum of Rs. 10,383 which was the compensation paid to the Imperial Agriculturist for utilising certain areas of land in the Agricultural Institute Estate, Pusa, for the purpose of carrying out experiments conducted by the Secretary. Sugar Bureau, on behalf of and at the expense of Messrs. Begg Sutherland & Co., and the Bihar Planters' Association, was directly appropriated by the Imperial Agriculturist for expenditure in contravention of Treasury Order (7) and Article (1) of the Civil Account Code, Volume 1. The money realised was utilised for the purchase of Berseem seed, an Aveshire bull and other sundry items of votable expenditure. Expenditure was thus incurred on a voted subject without any vote of the Legislature. Incidentally, the sanction of the Accountant General, Central Revenues, for opening an

secount in the Imperial Bank of India, in the name of the Imperial Agriculturist, for these receipts, appears to have been obtained without the full facts of the case being disclosed to that officer. The Government of India agreed that serious financial irregularities were committed in this case, principally by a certain officer, and partly also by another officer, by incurring expenditure to the extent of Rs. 10.383 on a voted subject without any vote of the Legislature, and by utilising receipts directly for expenditure, in contravention of Treasury Order No. 7 and Article 1 of Civil Account Code, Volume 1. In view, however, mainly of the fact that the irregularities reported occurred some six years ago, the Government of India decided to condone them. The officers concerned were informed that their action in this case was seriously irregular.

238. No regular accounts were kept by a certain officer for the yield and disposal of the crops in a section of the Agricultural Institute, prior to 1924. The orders of the Government of India on this case are summarised below:—

"The officer concerned took away the records of the crop yield in order to write up certain books which have now been completed. The original records are being forwarded to the head of the department and will be available for inspection by Audit Officers.

Whilst the Government of India were unable to regard the officer's explanation for the delay in returning records as entirely satisfactory, they did not consider it necessary to take any further action."

DAIRY ATTACHED TO THE IMPERIAL INSTITUTE OF

239. Balance sheet

Liabilities			ilss mided arch 1928.	1025-29.		
			Re	Re		
Soudry Creditors for :			S()			
Lighting charges			6			
Beserve for doubtful debte			8	20		
Reserve for Indirect charges due to Government			218	208		
				8 498		
Covernment Capital account	1.4	**	1,000	2,486		
Not Fruit as por l'. & L. account	93	70.4	1,054	1,301		

(Sd.) RAM NARAIN,
Head Accountant,
Imperial last, of Veterinary Research Institute,
Mukteear.

(Sd.) HUGH COOPER,
for Director,
Imperial fast, of Veterinary Research
Institute, Makteen.

VETERINARY RESEARCH INSTITUTE, MUKTESAR. as at 31st March 1929.

Awets.	9 months ended 31st March 1928.	1928-1929.	
Buildings	1,400 69	He. 1,409	
	1,460		
Deduct-Depreciation and Transfers	670 SON	596	773
Plant and Machinery	876	875	
Deduct-Depreciation and Transfers	498	7	10
Furniture and Utensile	138	43	
	200	1411	
Less transfers and writes off	103	97	113
Live stock at valuation			2,720
Sundry Debtore			445
Total Re.	in 11 6,	364	4,078

(Sd.) A. RENGASWAMI IYEB.

As-44. Director of Commercial Audit.

Calcutta Circle.

_	_
ERINABY	
YET.	
40	
INSTITUTE OF V	
CRED TO THE IMPRRIAL IN	1929.
-	ARCH
E C	M
74	1
T OF THE DAIRY ATTACHES	ENTORD A
ALTHY A	YEAR
G M	THE
OF THE	NOR
ACCOUNT 0	RESEARCH, MURTESAR, FOR THE YEAR ENDER 31ST MARCH 1929.
IT AND LOSS AC	ARCH. D
TAND	REL
PROFIT AND	×
TAND	
Распростох	
から	

24	ð				-111		T 11 7/10	I DE L
F VETERINA		For the year raded 31at March 1929.	He.	5,035	184	300	8	6,485
L INSTITUTE O		For othe months ended 21st March 1928.	Ro.	\$685°F	091	380	: "	4,288
I AND LOSS ACCOUNT OF THE DAIRY ATTACRED TO THE IMPERIA RESEARCH, MUNTESAR, YOR THE YEAR ENDED 31ST MARCH 1929.				By Sale of Milk .	". Value of milk fed to ealves	Value of manure laused to Farm	. Apprendation of livertock .	Total
SAR, YOR THE Y		For the year ended 31st March 1929.	Rs.		200	55.55	33 129 1,301	0,482
EARCH, MUKTE		For nine decettle exclod 31st March 1928.	Ra	\$1014 100 778	2:	68.88	2.0 80,1 3.066	8887
246. PRODUCTION AND PROFIT AND LOSS ACCOUNT OF THE DAIRY ATTACHED TO THE IMPERIAL INSCITUTE OF VETERINARY REAR ENDED 31ST MARCH 1929.	Dr.			To Ferding Charges Grain and fodder. Wages and salary of stuff Lighting and Hosting. Review to Building.	. Mandry Expenses . Value of formittee and utenalls written off.	a Greethands :- Audit Peo Louve and Penalonary contributions Interest on Capital	Endidings Plant and Machinery Furniture and Utenalls Reserve for Doubital Debts Met profit	Total

IMPERIAL INSTITUTE OF VETERINARY RESEARCH, MUKTESAR.

241. The Imperial Institute of Veterinary Research, is situated at Muktesar, Namital District, United Provinces, 241 miles from the nearest Railway Station (Kathgodam, R. & K. Railway) in the Himalayan hills. The original object of this Institute was to investigate the diseases of domesticated animals in all provinces and to ascertain, as far as possible, by biological reaearch, both in the Laboratory and when necessary at the places of outbreak, the means of preventing and curing such diseases. It has since developed into an extensive institution in which sera and vaccines are manufactured more or less on a large scale for supplies to Local Governments and to Indian States. There is a Branch Institute at Izatnugar near Bareilly where sets for combating rinderpest and haemorrahagic aspticaemia are produced in bulk in a crude state, and sent up to Mukteser for testing, bottling and storing until required for issue.

In addition to the production of sera and vaccines, the activities of this Institute consist of research in devising suitable remodies for diseases of animals which still require investigation, in standardisation of doses and experiments, and in new methods of inoculation, etc. The educational activities of the Institute consist in imparting post-graduate instruction and practical training to veterinary officers and subordinates deputed by the Army department, Provincial Governments and Indian States. The cost of sers and vaccines supplied to Local Governments, etc., is recovered from them at the selling rates sanctioned by the Covernment of India from time to time.

242. In addition to those sections connected with Research, the Institute at Mukresar has the following branches :-

1. Serum Department where sers and vaccines are manufactured, tested, bottled and stored.

2. Veterinary Branch in which the animals required for experiment and munufacture of sera, etc., are maintained.

3. Form which controls the labour and maintains the land and the Reserved Forest of the Institute, and conducts the miscellaneous estate and cultivation work.

4. Engineering under the charge of an Engineer who looks after the water supply, electricity, gas, steam, workshop, etc., required for the institute.

5. Hespital in charge of an Assistant Surgeon who looks after the medical and sanitary arrangements of the Institute.

6. Miscellaneous Department to look after the transport arrangements, packing of sers and vaccines that are sent out, atc.

There is also a small dairy attached to the Institute which is maintained for the supply of milk to the staff of the Institute. As Muktesar is an isolated place, it is necessary for Government to make arrangements for the transport of bottles, packing cases, etc., as well as for the supply of transport to meet the private requirements of the staff, and of officers visiting the Institute on duty.

243. The main expenditure of the Institute is on the pay of officers and staff, the purchase, feed, and upkeep of animals required for experiment and for the manufacture of sera and vaccines, the cost of chemicals and apparatus,

TO DCA

and other miscellaneous incidental expenses. The receipts consist mainly of the sale proceeds of sera and vaccines and other products of the Institute issued to Local Governments and Indian States, and miscellaneous receipts such as sale of garden and forest produce, etc.

244. In 1923, the Inchespo Committee recommended that steps should be taken to place the Institute on a self-supporting basis. This policy implied that the selling prices of the products of the Institute should be so regulated as to cover the entire cost of the upkeep of the Institute, including the expenditure on research and education, and as a corollary, the maintenance of a commercial system of accounts, to ensure that the policy is being actually carried out in practice. It was therefore decided that a proper system of commercial and cost accounts should be introduced in the Institute with effect from 1st April 1926 and that the audit he entrusted to the Commercial Audit Branch instead of as previously to the Examiner of Local Fund Accounts, United Provinces. Proposals were made to the Agricultural Adviser by the Commercial Audit Branch in 1927, for the reorganisation of the accounts system of the Institute. The Royal Commission on Agriculture also recommended that the Government of India should by down a suitable financial policy for permanent adoption in regard to the administration of the Institute. They suggested that an effort should be made to distinguish as fully as possible between expenditure on research and that on manufacture operations, and that Maktesar on its factory side should be regarded as an All-India Institution maintained to supply the Provincial Governments and the Indian States with sera, vaccines, etc., at cost price. They also suggested that the profits accruing from the manufacturing side of the Institute should be reviewed periodically and that a suitable bonus fixed in proportion to the purchases made by Local Governments be declared at intervals of two or three years. The Government of India have decided that it is not desirable to pass any orders on the re-organisation of the accounts system of the Institute and the formulation of a suitable financial policy until certain questions connected with the higher administrative arrangements of the Institute have been settled. The matter rests there at present. Except in the case of the small dairy attached to the Institute no commercial and costing accounts have yet been introduced in this Institute, pending the final orders of the Government of India. The Government of India have recently decided to appoint an administrative financial officer to the Institute and have selected an officer of the Indian Audit and Accounts Service for the post.

245. Financial Results.—For the reasons stated in the preceding para, it has not been possible to present accounts in a commercial form as yet. The receipts and expenditure of the Institute, as far as could be ascertained from the records of the Institute, at the time of audit, for three years, are furnished below, to give an idea of the transactions involved:—

Sale of sere. Sale of mimals Bale of Norest Produce Missellaneous including Dairy receipts	:	11000	1925-29. Rs. 14,22,482 25,022 136 20,781	1927-28, Ra. 11,98,368 15,612 184 11,396	1920-27. Ra. 10,88,847 10,323 380 7,164
			14.68,421	12,95,550	11,06,193

Reproditure.				1028-20.	1927-28.	1925-27.
				Ra.	Ra.	Ra
Salarin and Travelling allowance .				2,30,527	2,11,635	2,04,680
Percham of attimals				1,07,195	1,09,478	89,755
Feet and upleasp of animals				2,23,008	2.10.183	2,18,020
Cost of chemicals	9-		F	37,855	34,950	35,054
Other supplies and services and contin-	_	dia .	1	F.20.818	1,26,070	1,12,583
principles.				7.28,776	6,92316	5,10,490
Net excess of seccipia over				7,30,628	8,33,534	1,46,703
Percentage of expanditure to				41)*(1)3=	50:5	59-62

The figures indicate a steady increase in expenditure as well as in reneipts, as well as a progressive increase in the annual surplus, representing the increase of total receipts over total expenditure. The surplus of receipts over the expenditure during the year 1/28-29 amounted to over 7 lakhs of Rupees and this is over 2 lakhs in excess of the surplus for the preceding year. The percentage of expenditure to receipts has also fallen steadily. This surplus cannot be regarded as representing the true profit of the concern in a commercial sense, which can only be ascertained if the accounts are placed on a commercial basis, and a proper trading and profit and loss account compiled. In arriving at the surplus, no distinction has been made between expenditure of a capital nature and that on working expenses, and the figures do not also include the true value of stores consumed, and provision for indirect charges, e.g., interest on capital, depreciation on wasting assets, direction charges, pensionary contribution, andit fee, eto. The accounts at present rendered do not also differentiate between research, education and production, and unless a suitable scheme of commercial accounts is introduced, it is not possible to work out the true financial results. It is however fairly apparent from the annual c. sh surpluses given above, that the prices at which sera and vaccines, etc., are being sold to Local Governments are probably considerably in excess of their actual production costs. It seems desirable that an early decision should be arrived at on the question of the formulation of a suitable financial policy and the introduction of costing and commercial accounts in the Institute,

246. Since the transfer of the local and tof the Institute to the Commercial Audit Branch, various suggestions in regard to the procedure, system of accounts, etc., have been made by audit with a view to improving the state of accounts and financial control. As a result, substantial steps have been taken in the direction of improving the state of accounts and control generally.

Financial Irregularities.

247. In item (3) on Page 292 of the Accountant-General's (Central Revenues) Appropriation Accounts for 1927-28, attention was drawn to the

practice of engaging temporary clerks and dressers without competent sanction and entering them as Jamadars, mates, etc., in the master rolls. This practice has been examined and certain steps have been taken to discontinue it. In the budget for 1929-30, provision has been made under "Temporary Establishment and Contingencies—Psy of menials" for several classes of establishment, such as hospital cook, bhistic, chokidars, cleaners, sanitary jamadar, dhobi, mali, etc., whose salaries were hitherto charged to the muster rolls without higher canction. There are still certain other classes of establishments whose pay should properly be included in the establishment pay bills but is drawn at present in muster rolls. The whole question of the nature and classes of establishments which may be treated as cooly establishment and included in the muster rolls, has to be considered, and suitable rules should be drawn up on the subject. The limits upto which the director can sanction such establishments and the conditions regulating their entertainment, etc., should also be clearly defined.

248. The following irregularity was noticed in the course of the audit of the accounts of the Leatnagar branch. The ration schedules for animals were fixed in English lbs., by the Director, and it was expressly laid down that any excesses over the provision made in the schedules should not be made without the Director's sanction. A maund of Indian weight is equivalent to \$2-4 lbs. of English weight. Owing to the adoption of the incorrect ratio of \$60 lbs., of English weight as being equivalent to I maund of Indian weight, it was found that rations had been drawn in excess of the sanctioned scale for many years, since the inception of the Institute upto 11th September 1927. It is stated that the excess drawn has been fed to the animals. This fact was not detected either by the executive subordinates or by the accounting staff of the Izatnagar branch or the Mukhtesar Institute. The amount involved may be estimated roughly as Rs. 1,000 per annum.

It was considered by Government whether any overpayment to the Contractor had occurred. The late Agricultural Adviser explained that although the ration indents were prepared in pounds the contractors actually delivered grain in seers and submitted their bills prepared in Indian weights. It was shown that no overpayment had been made to the Contractors and it was affirmed that the cattle were the sole recipients of benefit by the mistake.

The Director, Imperial Institute of Veterinary Research, Muktesar has taken the necessary disciplinary action in regard to failure to note that an incorrect ratio of conversion was being adopted, and has also taken steps to improve the existing arrangements for taking delivery of grain. The action taken in the matter has been considered to be satisfactory and Government have decided to close the case.

249. Losses .-

(a) A deficiency amounting to Rs. 56,759 was disclosed as a result of stock-taking. Out of this, a sum of Rs. 55,492 relates to the shortages in the Serum Branch. The sanction of the Government of India to the write-off of this loss is awaited.

- (b) Losses of somewhat substantial quantities of crude stocks of sera and vaccines between Izatnagar and Muktesar were also noticed. Losses of crude stocks may be divided into three kinds:—
 - (1) Losses due to leakage while in transit,
 - (2) Losses due to leakage, etc., in the course of bottling,
 - (3) Losses due to rejections after tests.

It appears desirable that steps should be taken to minimise these losses as far as possible. The matter is still under consideration.

- (c) A Loss of Rs. 2,468 occurred owing to the failure to recover rent from a certain officer who is not entitled to rent-free quarters.
- (d) In the previous years, eers and other products of the Institute were issued free of cost, by the Director, for experimental, educational and other purposes. The Government of India sanctioned the write-off of a sum of Rs. 4.917 being the cost of such products issued during the previous years and directed that such free issues should not be made, in future, without proper sanction.

Dairy.

- 250. This is a very small concern and is intended solely for the supply of milk to the staff of the Institute in view of the scarcity of milk at Muktesar. Raw milk only is sold, no cream or butter being made. The Dairy was run purely as a private concern until the year 1919 when the Government of India sanctioned its purchase, and directed that it should be maintained as a Government concern subject to the condition that it should be closed down unless it is self-supporting. Proper accounts bringing out the true commercial results of the concern were not maintained until 1st July 1936 when a suitable system prescribed by the Commercial Audit Branch was brought into effect. In addition to the herd of this dairy another herd of cows is being maintained in the institute for the purpose of breeding calves for experimental purposess. The surplus milk from this berd is also available for sale in addition to the dairy milk.
 - 251. The dairy herd originally purchased by the Government of India in the year 1919 consisted of 12 dows and 31 calves. Since then several purchases have been made for the experimental herd which have been transferred to the dairy herd when required. On 1st July 1926, the strength of the original dairy herd consisted of four cows only, of which two were dry and two in milk. The Director on that date arranged that the experimental herd should be run in conjunction with the dairy herd in the following manner. The dairy herd was to contain only animals in milk. The animals in this herd were valued by the Director once a year, and as each became dry, it was to be transferred to the experimental herd, its value being credited to the dairy. The cows were to remain in the experimental herd until they calved. These calves would be treated as the property of the experimental herd. Cows in milk would be taken back to the dairy if and when required, their

value being debited to the dairy accounts. These arrangements continued to be in force until the end of the year 1928-29. The Government of India have now decided that the existing dairy and the experimental herds should be amalgamated under the designation of "Pairy herd", and that 30 per cent, of the total expenditure on the combined herd should be debited to Research and Experiment while the balance of 70 per cent, should represent the running costs of the dairy portion which should be covered by the income of the Dairy. It is understood that these orders have been given effect to from 1st April 1929.

- 252. A balance sheet showing the financial position of the Dairy as at 31st March 1929, and the Production and Profit and Loss accounts for the year 1928-29 and the accounts for the preceding accounting period which consisted of 9 months only to the end of 31st March 1928, are prefixed.
- 253. Financial results.—The working of the year showed a profit of Rs. 1,301 as against a profit of Rs. 1,056 during the nine months ended 31st March 1928, and a loss of Rs. 1,023 during the year ended 30th June 1927. In working out this profit, provision has been made for the depreciation of furniture, plant and machinery, for leave and pensionary contribution, interest on capital and audit fee; credit has also been taken for the value of the milk fed to the calves which are the property of the experimental herd, and the estimated value of the manure issued to the Farm from the Dairy.
- 254. The following tables show the number of animals in the Dairy, the average yield per animal, the average cost of milk per seer, the quantity of milk available for sale, the quantity sold, etc :--

STRENGTH OF MILKING HERD.

No. at commence- ment. d	Additions luring the year.	Transfer to experiments.	Casmilties.
lut July 1926 15 com	15 cowa	18 cows	1 died
lat July 1927 11 .,	21	21 4	**
las April 1928 11	23	51 "	L mold
Strongth of milking hard at close of year		1928-29.	1927-98.
No. of animals milked during the year		4,410	3,600 "
No. of animals milked during the year Milk yield		4,410 10,048 noces	

I wearn 12) oh. I moore, 10) oh.

QUANTITY OF MELK ERODUGED, QUANTITY AVAILABLE FOR SALE AND SURPLUS.

					1928-1929.	1927-1928.
Total milk yield		4			16,048 sects	13,2231 mem
Lous in handling			4		371	367)
Puccustage to total yield .					2:23 %	2:02 %
Quantity available for sale .			,•	-	10,277} seess	12,956 score
Quantity sold	प		Lie		18,7281	12,5551
Percentage to quantity available for	or sal	0			96-93 %	201.00
Surplus fed to calves		,			AUD occus	400] aners.
Percentage to that available for sale	OT .	21			S-07 %	3:09 %

255. Production cost.—The average cost of production per seer for 3 years is given below :—

1998-29	1/1			+	Ro	0	3	10-25	per some
1927-99		10		41	(84)	0	3	9.7	a >
1986-27					*1	0	5	9	10

256. The selling rate up to end of July 1927 was 4 as 6 ps. per seer. With effect from 1st August 1927, the Government of India revised the selling rates of milk in accordance with the following graduated scale according to the pay of the purchasers:—

Residents drawing Rs 180 and less .	Re-	O	4	Ø	per seer.
Residents drawing botween Rs. 151 and Rs. 800	in.	0	6	0	20
Residente drawing above Ra. 600	0.9	U	8	0	19
Milk purchased by Government for the Institute	44	0	6	0	94

These rates were followed to the end of 1928-29. The rates have since been revised by the Government of India as below :-

Besidents drawing Rs. 200 and below .		Ro.	0	4	6	per mer.
Residents drawing above Ra. 200	-	199	0	6	0	
Mills sumiled to the Institute and outsiders		80	0	-6	D	100

It is understood that these rates have been brought into effect from 1st April 1929. It will be seen that the average cost of production is now less than the selling rates and that this fact accounts for the profit shown in the accounts.

BALANCE SHEET.

257. Plant and Machinery.—The reduction in the value of Plant and Machinery is due to some machinery having been transferred from the Dairy to the Power House.

258. Lucatock. - At beginning of the year 1928-29 there were 11 cows valued at Rs. 2,369. During the year 23 fresh cows were transferred to the dairy berd at a valuation of Rs. 4,870. 21 animals were re-transferred to the experimental herd at a valuation of Rs. 4,512 and one animal was sold for Ra. 2. Thus at the end of the year there were 12 animals valued at Rs. 2,725; the valuation of the animals in the dairy at the close of the year and those transferred from and to the experimental side was made by two officers attached to the Institute on the basis of their present condition and the prevailing market rates, while in the previous year the valuation was based on a certain fixed formula irrespective of the market fluctuations and the condition of the individual animals. It is noticed that in some cases the valuation fixed by the officers exhibited striking fluctuations, and it is therefore considered desirable that the valuation assigned to the animals by the Local Officers should in future be scrutinised and approved by some independent expert authority. Further, some of the animals transferred from the dairy to the experimental side were sold within a few months of their transfer for prices considerably less than the amounts at which they were assessed on transfer, indicating that the valuation on which the financial results of the dairy are based, was excessive.

It has been suggested in audit that in case of livestock, the approval of Agricultural Adviser or other independent cattle expert should be obtained to the valuation.

CHAPTER V.

COVERNMENT OF INDIA COMMERCE DEPARTMENT CONCERNS.

BENGAL PILOT SERVICE

259. In order to determine whether the Bengal Pilot Service is a selfsupporting institution, i.e., whether the receipts from the Pilotage fees over a fixed period are sufficient to cover all the charges, it has been decided by the Government of India that proformd accounts shall be prepared in a commercial form, so as to present a clearer picture of the activities of the Pilot Service than has been possible in the past. A quasi-commercial system of accounts has accordingly been introduced with effect from 1st April 1928. Detailed rules have been prepared prescribing the procedure to be followed in the preparation of the accounts in a commercial form. The accounts are maintained in the office of the Pay and Accounts Officer, Miscellaneous Central Departments, Calcutta. It was not possible for the Pay and Accounts Officer to close the accounts for the year 1928-29 owing to the fact that a number of important accounting questions were under the consideration of the Government of India, and orders on them were not issued until about the end of the year 1929. The delay in the compilation of the accounts necessarily meant the postponement of the audit by the Commercial Audit Branch, and accounts have not therefore been included in this printed appendix.

PERSIAN GULF LIGHTING SERVICE FUND.

260. BALANCE SHEET AS AT

31st March 1929.

LEADIZHER		Assess.	
	R.		Ra
Capital	7,13,207	Buildings	1,70,840
		Light Vessels	1,00,667
Depreciation Reserve	69,136	Lighte .	2,32,293
The second second		Broger	23,334
Additions and Replacement Re-	45,002	Towers	1,15,505
		Paths and Landing	43,629
Funds (Additions and Replace- ment) Investment Interest.	1,420	Sundry Debtors-	
manage of a see a description of TT follow of the		Port Director, Barra 44,687	
Sendry Creditor-Fort Direc-	0.01	Post Director, Rears Suspense Account 227	
ter. Barru.	,000	Suspense Account 227	44,914
		Surplus Revenue Lucestments of	8,02,165
Profit and I am Account	10,57,304	Depreciation Fund Investment	50,078
		Additions and Replacement Fund Investment at Cost.	45,000
		Interest Suspense Account .	30
		Cutch at Bank	1,12,575
		Works in Progress-	
		New Light at Ras	
		New Buoy for relial of Task and Bun-	
		der Abbas buoya 3,988 Conversion of one	
		carlida buoy to	
		Gas 500y . 3,414	20,778
		Stores on hand	13,815
		Provisions on Aged	1,702 3,907
	18,76,849		18,76,849

True copy.

Sd. E. PRICE.

Assistant Director of Commercial Audit, Bombay Circle. SI. V. D. DANTYAGI.

Assistant Accountant General, Commercial Audit Branch.

PERSIAN GULF LIGHTING SERVICE FUND.

261. PROFIT AND LOSS ACCOUNT FOR THE YEAR 1928-29.

	RA		Ra.
Co Saluries and allowances	21,486	By Light duce	4,10,007
. Clothing	902	. Misonliazeous Receipts	7,000
Provisions	21,160	. Contribution from Home Covernment	t,118,333
Repairs	til,947	- Interest	20,718
Magallanione Charges .	24,054	. Stores	2.984
Malicul and Sanitation .	att	of National A. A. a.	
Whatleso and freight -	1,472		
Cost of services rendered by the Lighthouse Ten- der.	1,04,037		
" Passages hadreding Travel- ling allowance and Daily allowance.	2,430		
Paul	7,549		
Depreciation	17,308		
. Additions and Reptacement Reserve.	13.373		
Postage and Telegrams .	470		
_ Printing and Stationery .	175		
" Collecton Charges	743		
Penulonary Charges	7,302		
Administration and As- county legisding Audit.	44,012		
Net Profit	3,18,121		

PERSIAN GULF LIGHTING
262, PROPIT AND LOSS ACCOUNT

	1925-26	1926-27.	1027-28.	1923-29.
	Fla.	Ra.	Ra.	Ba.
To Salaries and allowances	7,668	23,213	31.972	31,420
" Clothing	1,071	**	र ज	964
, Provisions , , , , ,	7,024	21,675	26.852	21,100
" Repairs . ,	1,349	25,277	5,813	16,947
" Miscellaneous Charges	9.192	29,331	32.367	34,564
" Metical and Sanitation	26	453	154	911
w Wharfage and freight	23	205	759	1,473
" Cost of services rundered by the Lighthouse Tender.	60.770	3,90,858	90,510	1,04,037
, Passages including travelling allow- ance and daily allowance.	70	1,060	1,100	2,439
, Storm	1,908	16,736	27,325	
. Finel	277	2,690	3,748	7,545
, Depreniation	7,315	17,308	17,308	17,305
. Additions and Replacement Reserve.	5,672	13,373	13,373	13,37
Postage and Telegrams		119	880	470
" Penning and Stationery		388	406	171
Collection Charges	1.1	1,939	1,249	741
" Pouslogary Charges	30	6,878	4,198	7,905
. Administration and accounts includ-	in .	24,202	10,940	23,011
Total Expenditure	1,02,180	5,98,524	2,77,273	2,72,480
Stalance being profit for the year	1,28,138	1,68,614	4.44,522	3,18,12
	2,30,316	7,50,138	7,21,795	\$,90,001
Add previous profit	* *	1,28,136	2,04,700	7,39,271
Total Profit to date	1,28,136	3,94,780	7.39,272	10,57,203

SERVICE FUND.

FOR THE PERIOD ENDED :-

		+					1925-25_	1926-17.	1927-28.	1928-29,
							Ra.	Ra.	Ra	Ra.
By	Light dues		í:	16	r		2.30,316	7,45,584	5,94,229	4,10,907
7	Misellancom	Resi	iptn			*	a b	3,254	12,822	7,059
H	Contribution	from	Нопи	Go	vernu	Sout	62		04,354	1,33,333
н	Internat	,e		4				1.5	20,300	30,318
100	Stores .		,	þ	*	4			70	2,984

263. The expenditure connected with the lighting and buoying of the Persian Gull was until 31st October 1925 borne in equal shares by His Majesty's Government and the Government of India. With effect from 1st November 1925 it was decided that the cost of the services rendered should be recovered by dues levied on ships using the lights, and for this purpose the "Persian Gulf Lighting Service Fund" came into existence from 1st November 1925. The Fund is devoted solely to the maintenance and development of the Persian Gulf Lighting and Bnoying Service. It is intended that the Fund should be self-supporting and that the accounts should be self-contained and distinct from the Government accounts.

The Government of India in the Department of Commerce are responsible for the administration and financial control of the Persian Gulf Lighting and Buoying Service while the Flag officer commanding and Director. Royal Indian Marine is responsible for the maintenance of the service. There is an Advisory Committee consisting of persons representing the interests affected or having special knowledge of the subject to consider all questions connected with the Service. The officer mentioned above is the Chairman of the Committee. The Committee is consulted freely on all matters pertaining to the Service including annual estimates of receipts and expenditure, the Government of India reserving to themselves the power to take action without previously consulting the Committee in cases of real and sudden emergency. The dues are collected, and other help is given by the Port Director, Basra in accordance with a special arrangement made with the Iraq Government.

The accounts of the Fund are maintained by the Controller of Marine Accounts, Bombay in the manner laid down in the Account Rules drawn up by the Commercial Audit Branch and approved by the Government of India, Commerce Department.

His Majesty's Government have agreed to pay an annual contribution of £5,000 towards the Fund during the first five years after its inception and this contribution is utilised towards the cost of the Service.

- 264. These accounts of the Persian Guli Lighting Service Fund are the first accounts of this concern audited by the Branch. The Director of Army Audit carried out an audit of these accounts up to July 1927. In accordance with Government orders the accounts from 1st November 1925 were re-cast in the term prescribed by the new rules and the Commercial Audit Branch test checked the accounts so drawn up from 1st November 1925 to July 1927 and also carried out regular audit of the accounts for the period July 1927 to \$18k March 1929.
- 265. A profit and less account for the year 1928-29 together with the comparative profit and less accounts for the four years ended 31st March 1929 and a Balance Sheet as at 31st March 1929 are profixed to this review.

In the accounts under review it has not been possible fully to comply with the requirements of some of the accounting rules. Instances in which the accounts are still defective are given below:—

 Outstanding liabilities and assets have not been included in the accounts: these could not be worked out owing to the inaccuracies of the system of stores accounts in force. The actual purchases of stores, fuel and provisions were charged to the accounts irrespective of the consumption.

The new stores accounting rules came into force from 1st April 1929, and with their introduction increased accuracy in the commercial accounts should be achieved.

265. Profit and Loss Account for the year 1928-29.—The rate of recovery which was reduced with effect from 1st April 1927 from 3 annas per net registered ton to 2 annas was further reduced to Re. 0-1-5 with effect from 1st April 1928 and in consequence of this latter reduction refunds amounting to Rs. 10,603-12-0 were made by the Port Director, Basra.

The profit and loss account for the year includes a credit of Rs. 1,33,333-5-4 being contribution for two years (1927-28 and 1928-29) paid by His Majesty's Government at £1,250 per quarter. Miscellaneous Receipts during the year are mostly due to the sale proceeds of anserviceable stores (Rs. 7,043.)

Miscellaneous charges &s. 24,554.—This represent payments made for hire of the Royal Indian Marine Trawler "Salsette" at Rs. 22,000 per year.

- 267. Comparative trading and profit and loss account.—It is not possible to make a true comparison of the working of the several years as not only have the periods of the receipts and expenditure included in the accounts varied in each case, but several adjustments for receipts and expenditure have been accounted for in a financial year other than that to which they pertained. Some of the items are, however, explained below:—
- The increase under the head "Miscellaneous Charges" in 1927-28 is mainly due to:—

Charges in connection with Mr. Staverson's visit	Ra. 2,465		P. 0	
Towage, etc., of Shateal-Arab Light Vessel and unattended lightships	5,502	6	0	
	7,858	0	a	

- 2. The decrease in the "cost of the services rendered by the Light House Tender" is due to the replacement of the "Lawrence" by the "Nearchus". Up to January 1927 three quarters of the total charges of the Royal Indian Marine Ship "Lawrence" used to be charged to the Fund, but Rs. 750 per day only is paid to the "Nearchus" when it is actually working for the Fund.
- 3. The fluctuations under the heads Stores and Repairs are being further investigated. The year 1920-27 apparently had a heavy repair programme but owing to the defects in stores and other accounting it is not known whether the figures can be accepted as reliable.
- 288. Balance Sheet.—The assets as on the date of the opening of the Fund were valued by Mr. Stevenson at Rs. 7,12,267 and this has been taken to be the Capital invested. In accordance with Government orders no lateral has been charged on the Government Capital.

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